Textbook

Mathematics

Based on Single National Curriculum 2020





Balochistan Textbook Board, Quetta



بِسْمِ اللَّهِ الرَّحْمٰنِ الرَّحِيْمِ فروع الله على المراح عند الريان نبايت رثم والا ب-

Textbook

Mathematics Grade 3

Based on Single National Curriculum

One Nation, One Curriculum

یے تناب محکمہ تعلیم حکومت باوچتان کی جانب سے تعلیمی سال 2025 کیلئے مفت تقسیم کی جارہی ہے اور نا قابل فروخت ہے

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Textbook

Mathematics Grade 3



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APPEAL

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Content

Sr.No	Unit	Page
1	Whole Numbers	1-40
2	Number Operations	41-75
3	Fractions	76-95
4	Measurement (Length, Mass and Capacity)	96-125
5	Measurement (Time)	126-140
6	Geometry	141-166
7	Data Handling	167-179

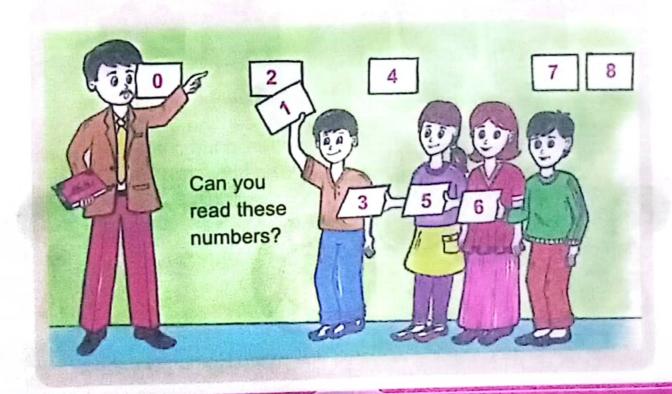


(Whole Numbers)

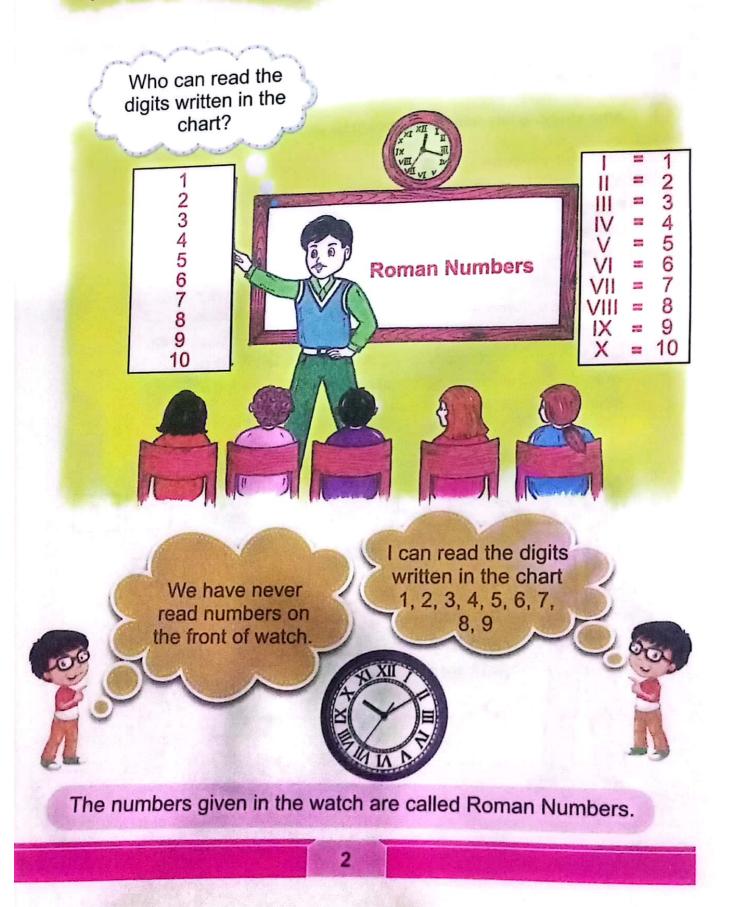
Learning Outcomes:

After studying this unit, students will be able to:

- Read Roman numbers up to 20.
- Write Roman numbers up to 20.
- Recognize even and odd numbers up to 99 within a given sequence.
- Differentiate between even and odd numbers within a given sequence.
- Identify the place values of numbers up to 5 digit
- Read and write given numbers up to 100,000 in numerals and words
- Represent a given number on number line up to 2 digit numbers.
- Identify the value of a number from number line up to 2 digit numbers.
- Compare two numbers up to 3 digits using symbols "<", ">", or "=".
- Write the given set of numbers in ascending and descending order.
 Round off a whole number to the nearest 10 and 100



(Roman Numbers)



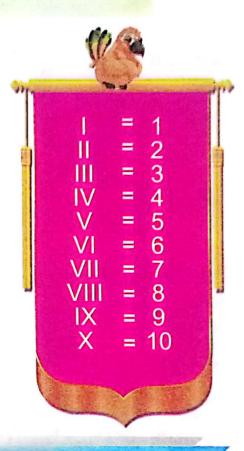
These are called Roman Numbers and can be read as.



Read the Roman numbers V, VII, IX and X



V is called 5 VII is called 7 IX is called 9 X is called 10





Count sharpeners and write in Roman numbers.



(Check Point)

Can you write the value of X and VIII?













Can you write the following Roman numbers into numeral numbers. IV, X, IX and VII.





Teaching Point

Show/give different objects written on Roman numbers to the children and practice them reading of Roman numbers.

3

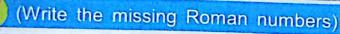
(Roman Numbers upto 20)

Nun	nbers		Romar	n rs	Numbe	ers	N	Roman lumbers
1	-	>			11	4	->	XI
2	-	>	11		12	4	->	XII
3	-	 ⊳	111		13	A. market market	->	XIII
4	-		IV ·		14	4	→	XIV
5	-	>	V		15	4	->	XV
6	4		VI		16	4	→	XVI
7	-	→	VII		17	4	→	XVII
8		>	VIII		18	4	->	XVIII
9		→	IX		19	-		XIX
10	-	→	X		20	4	→	XX
				Λ				



Write the time by looking at the clocks.







Exercise 1



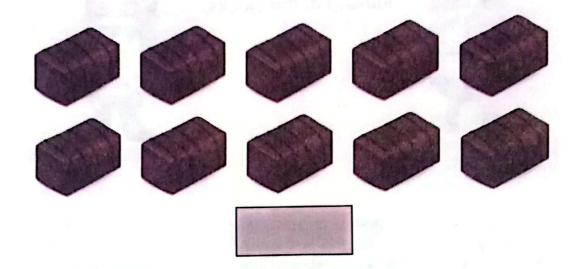


Write in the Roman Numbers

Teaching Point Give different cards to children containing digit numbers and Roman numbers. Ask them to recognize numbers from them.

5

2 Count the chocolate and write in Roman numbers.



3) Count the given figures and write in Roman numbers.



Write the missing numbers.



(Even and Odd Numbers



Count the beads in pair of 2 to understand even and odd numbers.

What are the even, and odd numbers?



Count the beads in pairs.

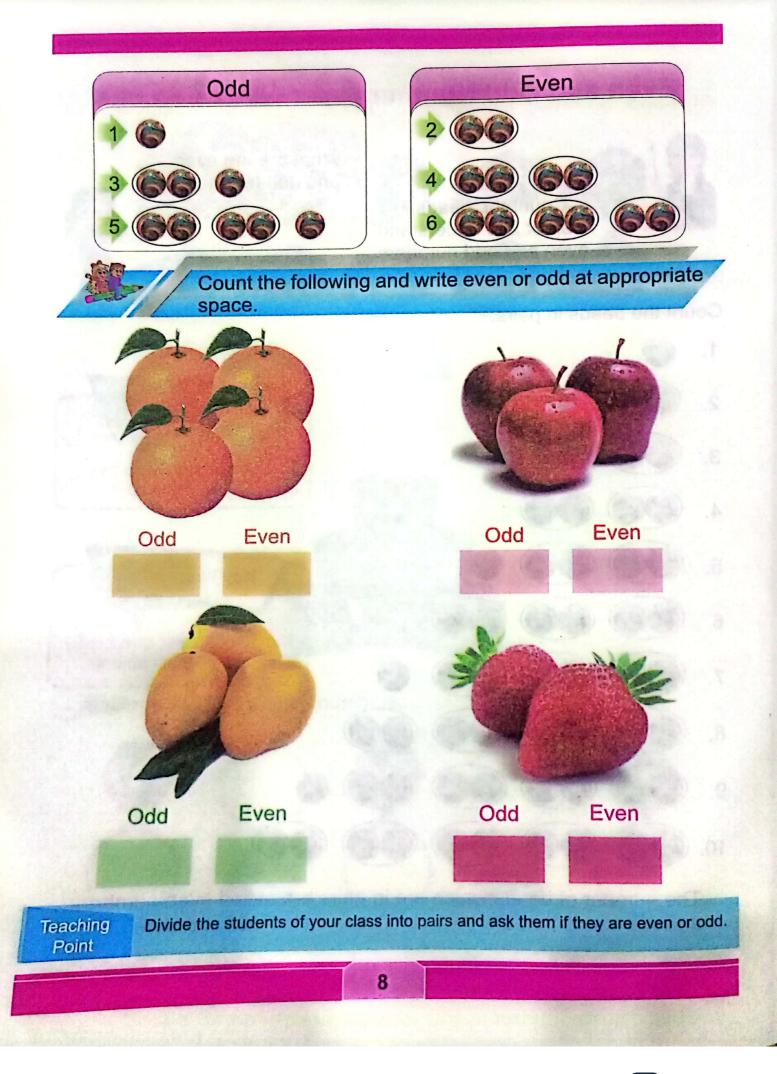
- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8. 66 66 66
- 9. 66 66 6
- 10.

The number of beads which are in pairs are called even numbers, and the beads that are not in pairs are called odd numbers.

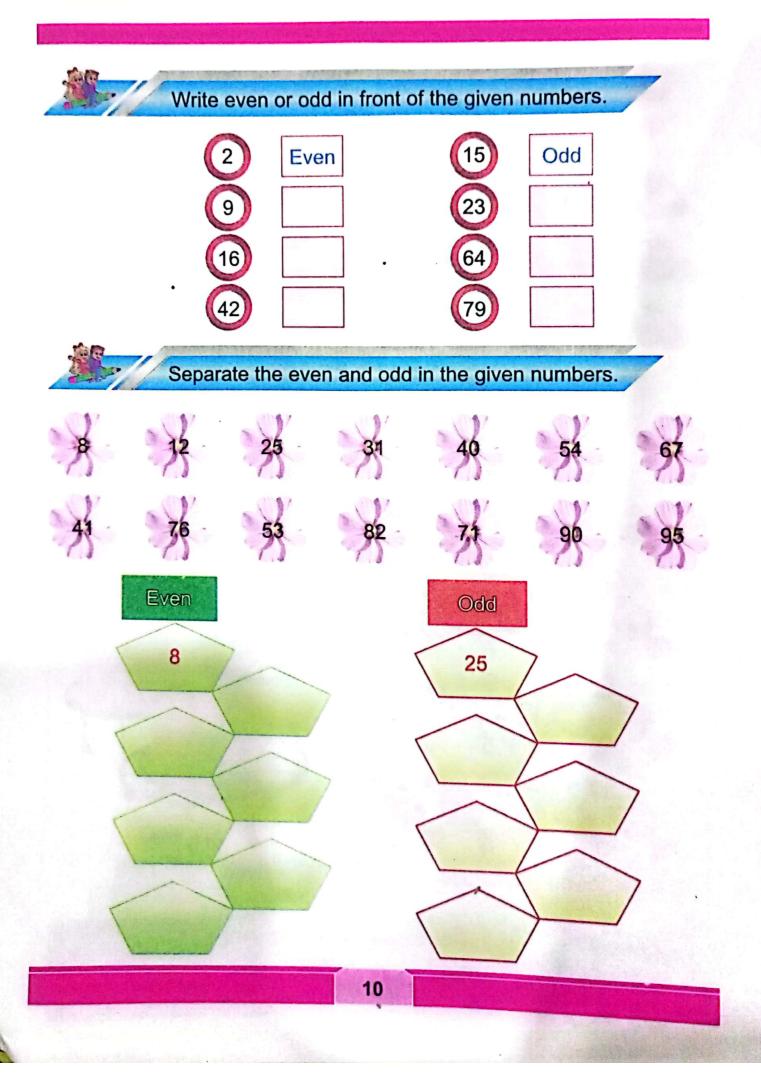


are called even numbers.





Count the following and write even and odd at the appropriate space. Even Odd Even Odd Odd Odd Even Even 9



Exercise 2

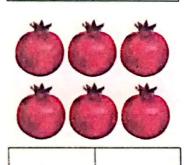


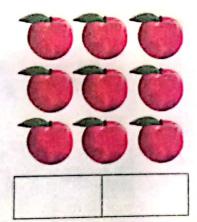
1

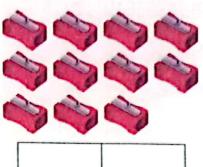
Look at the number of following pictures and identify if even or odd number.



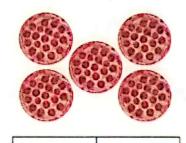


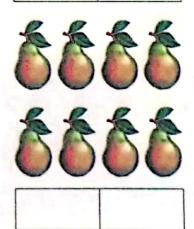




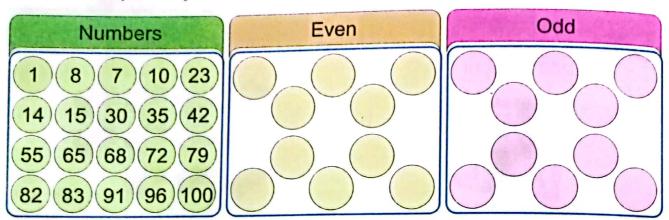




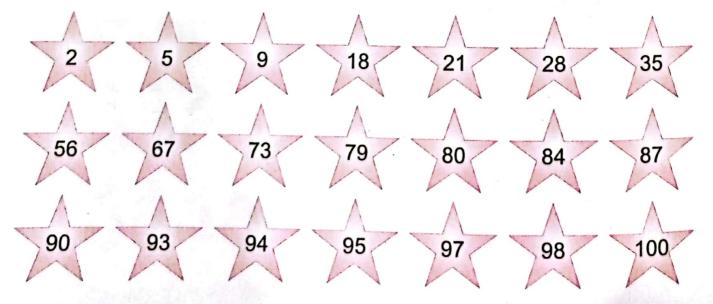




2 Identify even and odd from the given numbers and write them separately.



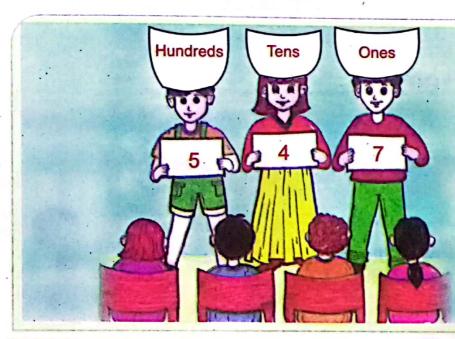
- Write the odd numbers in between the given numbers.
- (i) 4 and 16
- (ii) 20 and 34
- 4 Write the even numbers in between the given number.
- (i) 1 and 10
- (ii) 21 and 35
- 5 Sort the even and odd numbers from the following.



Place Values of Numbers up to 5 digits

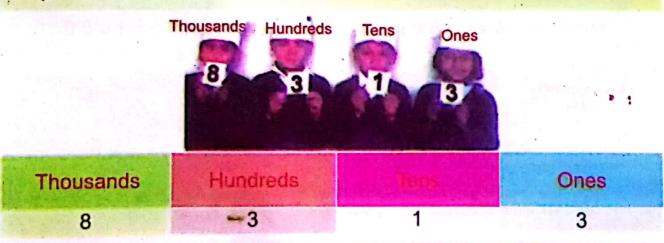
Yesterday my elder brother asked me about the place values of numbers. How can we find place value?





Give the cards to the children to make a number and find out the place value of each one and then change the place of these cards to make a new number, and find its place value and then give it to the other children.

The teacher called four children and gave them hats on which was written ones, tens, hundreds and thousands and also gave them cards. Find out the place value of each number in it.



8 is at thousands, place value of 8 is

3 is at hundreds, place value of 3 is,

1 is at tens, place value of 1 is,

3 is at ones place, place value of 3 is,

 $8 \times 1000 = 8000$

 $3 \times 100 = 300$

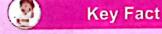
 $1 \times 10 = 10$

 $3 \times 1 = 3$

The, number is,

$$8000 + 300 + 10 + 3 = 8313$$

The place value of a digit is determined based on the position of the digit in that number.



10 = 1 tens = 10 ones

100 = 1 hundreds = 10 tens

1000 = 1 thousands = 10 hundreds

Numbers upto 100,000



Greatest 3-digit number is 999.

Do you know what is the greatest 3-digit number?



By adding 1 to 999, we get 1000 as:

It can be written in the place value chart as:

9 9 9 + 1

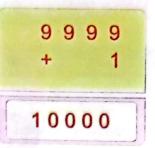
1000

Thousands	Hundreds	Tens	Ones
Th	H	T	O
1	0	0	0

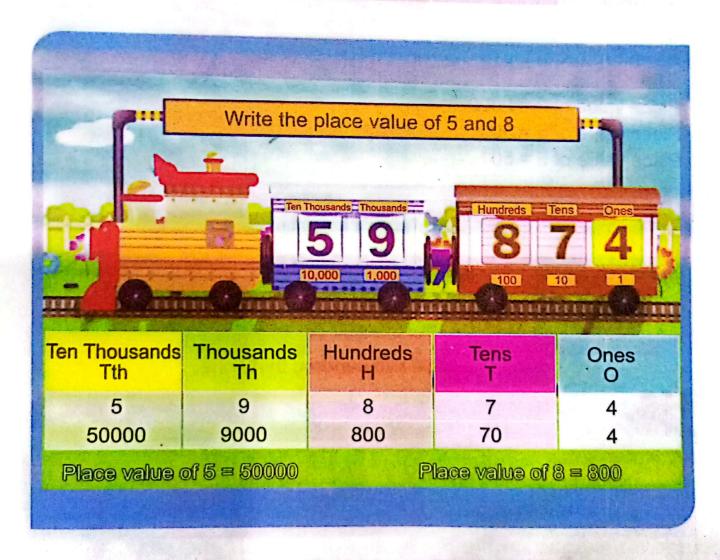
Teaching Point The teacher give number cards of different numbers up to 5 digits to the students. Ask the children about the place values.

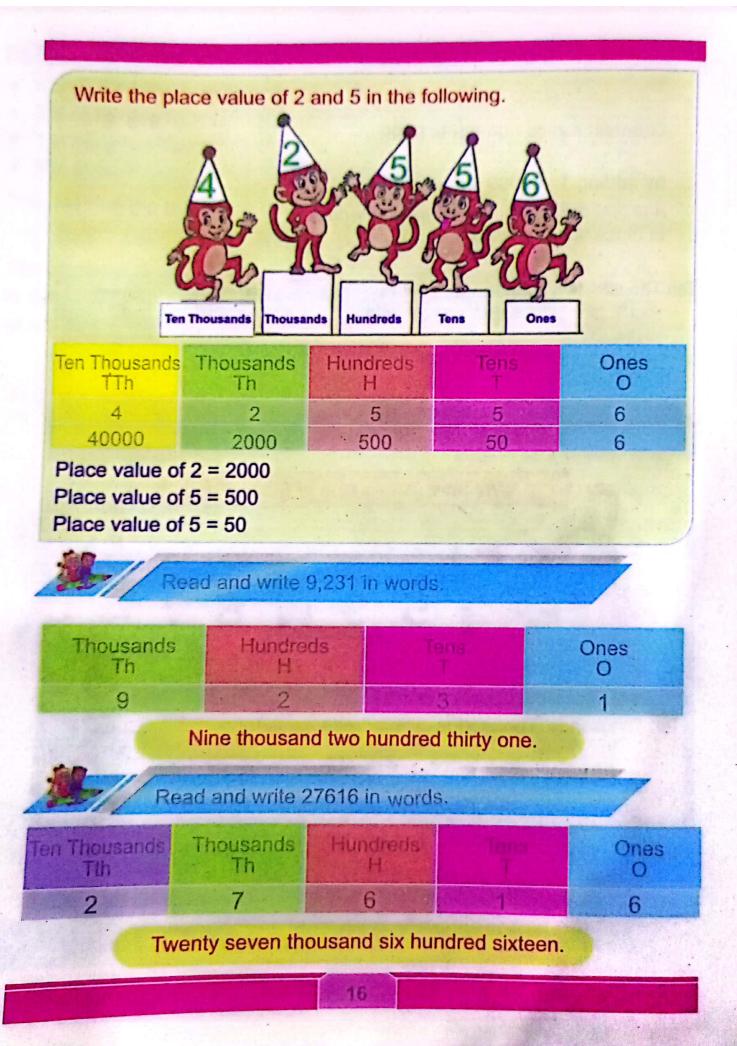
Greatest 4-digit number is 9999

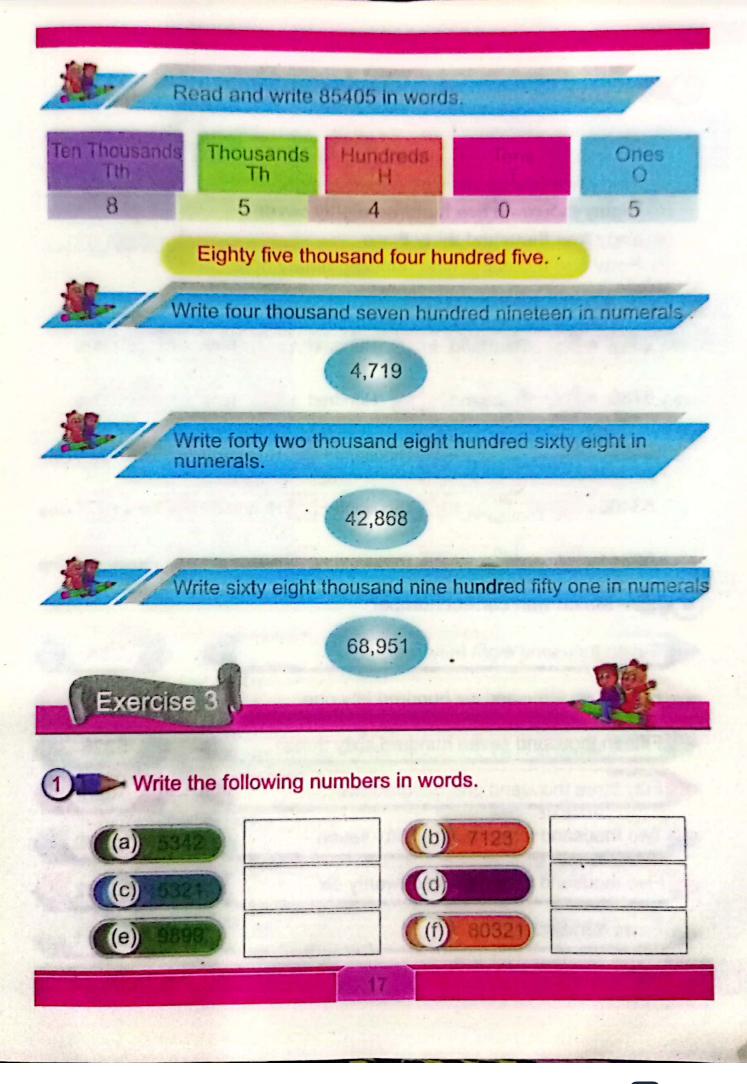
by adding 1 in 9999 we get 10,000. It is first 5-digit number. It can be written in place value chart as:



Ten Thousands	Thousands	Hundreds	Tens	Ones
TTh	Th	H	T	O
1	0	0	0	0







Write the following numbers in numerals (a) Five thousand eight hundred forty (b) Six thousand three hundred sixty three (c) Thirty two thousand three hundred eight (d) Eighty thousand five hundred eighty seven. (e) Sixty four thousand thirty three (f) Forty one thousand nine hundred ninety nine Fill in the blanks. Hundred + Tens (a) 2347 =Thousand + Hundred + (b) 6780 =Tens Thousand + Ten Thousand Hundred+ Tens+ (c) 34560 =Thousand+ Ten Thousand + Hundred+ Tens+ (d) 53406 =Thousand+ Ten Thousand + Tens+ Thousand+ Hundred+ (e) 92341= Match with correct number 384 Seven thousand eight hundred 2357 Eighty two thousand six hundred fifty one Fifteen thousand seven hundred sixty three 5326 Fifty three thousand one hundred two 7800 Two thousand three hundred fifty seven 15763 Five thousand three hundred twenty six 53102 Three hundred eighty four 82651

5	Write the place value of 4	and (6
---	----------------------------	-------	---

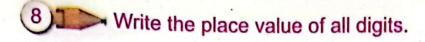
Thousands	Hundreds	Tens	Ones
Th	H	T	O
4	6	3	9

Write the place value of digits in the following numbers.

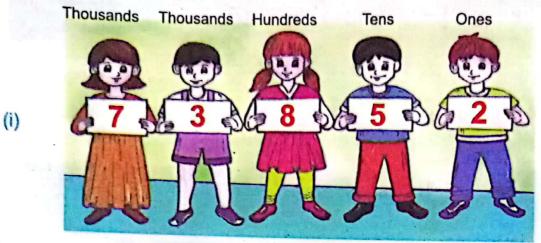
	Ten Thousands Tth	Thousands Th	Hundreds H	Tens T	Ones O
2357					
67815					
82301					
75389					

7 Write the place value of circled digit.

(i) 45 6 7	(ii) 5 3 27
(iii) 8 5 761	(iv) 70431
(v) 6 7431	(vi) 39761
(vii 93267	(viii)68037
(ix) 54136	(x) 89791



یکٹ بھر تعلیم محومت بلوچتان کی جانب سے تعلیم سال 2025 کیلئے مفت تعلیم کی جاری ہے اور نا قابل فروفت ہے



(ii)



Make three smaller numbers by replacing the place of digits in the given number.



Can you make some more smaller numbers?

Teaching Point Give different number cards to students and ask them to make smaller or larger number.



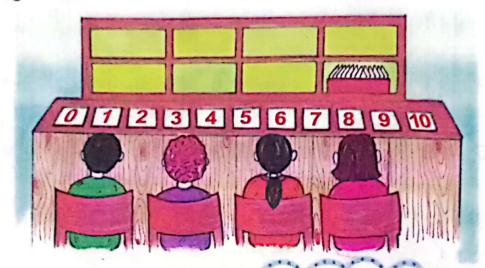
Find the given numbers in crossword puzzle. It may be horizontal or verticle. The first one is done for you.

6	9	2	6	5	7	4	9	0	1
4	1	5	8	7	6	2	0	1	4
5	9	7	3	2	3	7	7	2	9
9	0	3	5	2	7	6	4	5	9
8	6	4	9	7	1	1	0	5	3
4	2	3	8	1	6	7	3	5	8

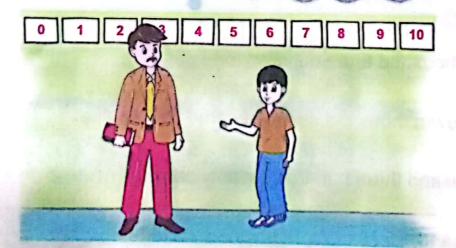
- Seven thousand three hundred forty three
- * Thirty seven thousand seven hundred twenty nine
- ☆ Six thousand three hundred seventy one
- ☆ 4 Thousand + 5 Hundred + 9 Tens + 8 ones
- ☆ 7 Ten thousand + 2 thousand + 2 hundred + 7 tens + 1 ones
- ☆ 3 Ten thousand + 5 thousand + 2 hundred + 7 tens + 6 ones

Number Line

Place the given numbers on a number line.



A straight line on which numbers are represented at equal intervals is called number line.



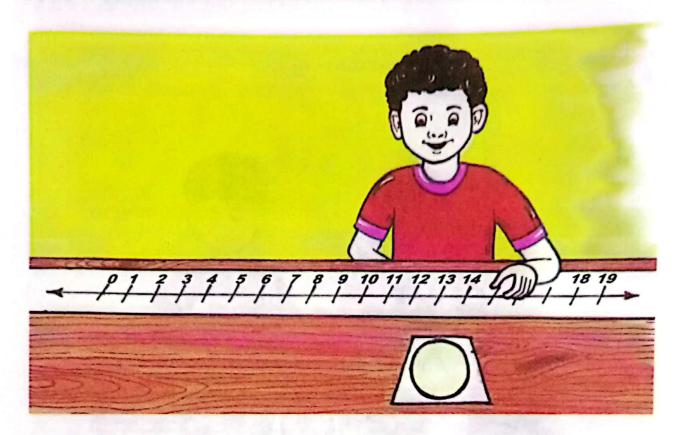


Teaching Point To explain the concept of number line to the students, give example of students standing in school assembly or sitting in a classroom.

22

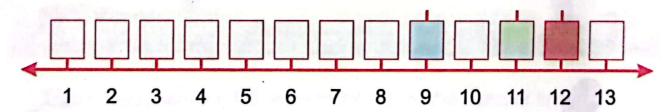


Represent 16 and 17 on number line.





Represent 9, 11 and 12 on number line.







Identify value of number from number line



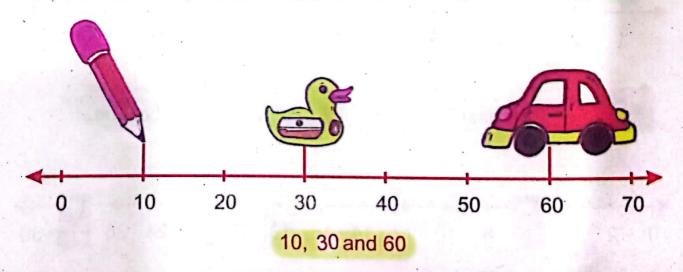
Identify the value of number given on the number line.

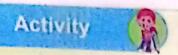


3 and 18



What were the value of objects on number line?





Identify the position of each child on number line (1 unit = 1 m)



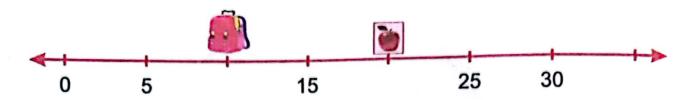




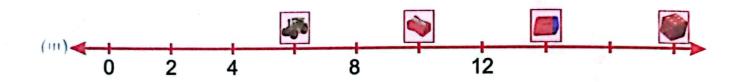
1 Represent the following numbers on the number line.



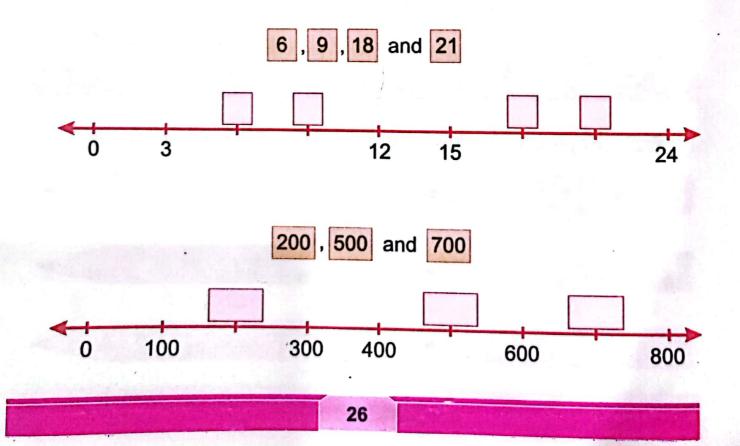
2 Write the value of objects on the number line.





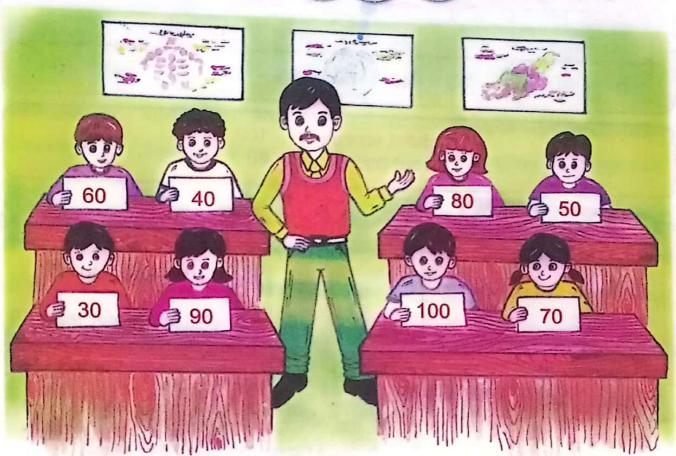


3 Place the correct card on the number line.



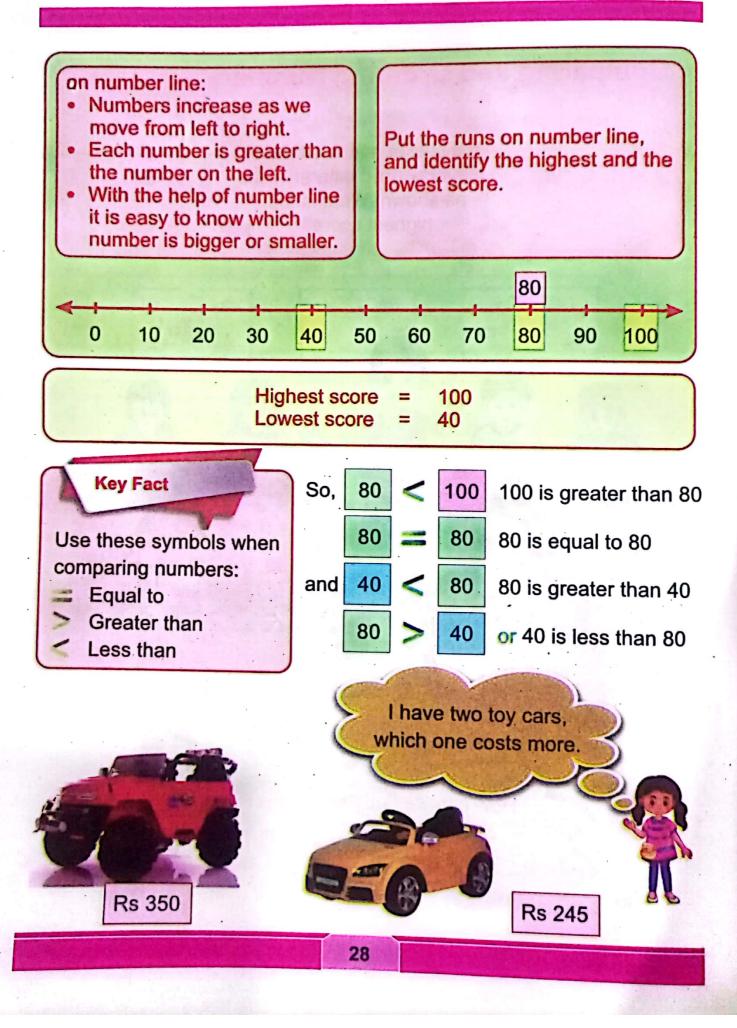
Comparing and Ordering Numbers

In a cricket match different player scored different runs as shown. What is the highest score?



How can we find the highest and the lowest score?





The cost can be compared easily with the help of place value chart.



Hundreds H	Tens T	Ones O
2	4	5
3	5	0

First compare the number at hundreds place. 3 at hundreds place is greater than 2 at hundreds place.

Therefore,

A toy worth Rs. 350 is expensive.

Compare 567 and 582.



Hundreds H	Tens T	Ones O
5	6	7
5	8	2

First compare the digits at hundreds place:

- The digit 5 at the hundreds place is same for both numbers.
- Then compare the digits at tens place.:
- Digit 8 at the ten place is greater than digit 6 at the tens place.

Number 582 is greater than 567. It can be written as:

582 > 567

Teaching Point Give number cards of different value to the students and ask them to compare numbers.



Compare 892 and 895

Key Point



Two numbers will be equal when that place value of all their digits is same.

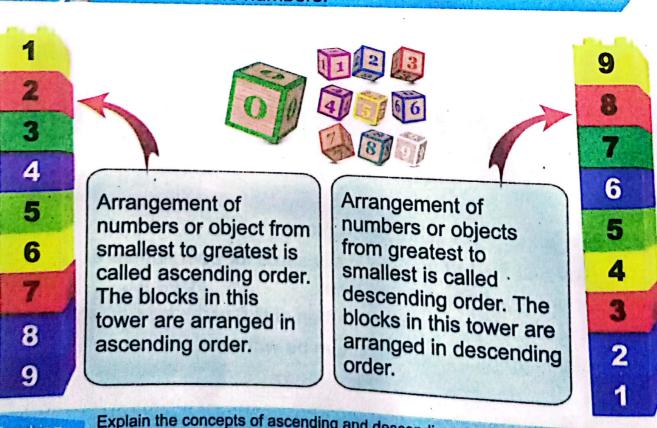
- The digit 8 at hundreds place in both numbers is same.
- The digit 9 at tens place in both numbers is same.
- The digit 5 at ones place is greater than digit 2 at one place. Therefore

895 > 892

Ordering Numbers



Build towers from number blocks keeping in mind the order of the numbers.



Teaching Point Explain the concepts of ascending and descending giving example from real life for example use of stairs.



Write 25, 45, 10 and 32 in ascending order.

Arrange these numbers starting from the smallest value.

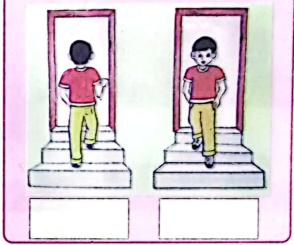
> 10, 25, 32, 45 is a ascending order.







Which picture represents ascending and descending order.





Write the numbers 325, 470 and 532 in

(i) Ascending order

(ii) Descending order

Ascending order

325

470

532

Descending order =

532

470

325

Write 279 281 265 273

in ascending and descending order.



Ascending order

265

273

279

281

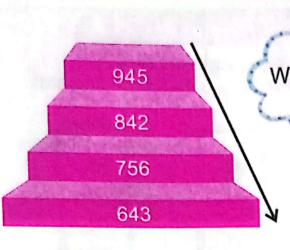
Descending order

281

279

273

265



Write 643, 756, 842 and 945 in descending order.



Exercise 5



1) Use symbols "<", ">" and "=" in the given boxes.

- (i) 873 426
- (ii) 694 706
- (iii) 857 857
- (iv) 973 824
- (v) 574 574
- (vi) 817 619

(2) Compare the given numbers.

(i) 671, 546

(ii) 248, 249

(iii) 374, 374

(iv) 738, 659

(v) 937, 936

(vi) 875, 877

Write the given numbers in ascending and descending orders.

(i) 71 , 51 , 91 , 61

Ascending order





Descending order









(ii)	85 , 52 , 73 , 4	1,67				
	Ascending order Descending order					
(iii)	346 , 451 , 321	, 536				
	Ascending order					
	Descending order					
(iv)	698 , 278 , 543	3,231,73	1			
	Ascending order					
	Descending order					
(v)	476 , 471 , 47	2,335,	345			
	Ascending order					
	Descending order					
41	Make five num and descending		than 321 a	and write t	hem in as	cending
	Ascending order					
	Descending order					
			33			



Estimation

Round off the whole number nearest to 10 and 100.

My father paid
Rs 1209 for buying fuel.
How can we round off
this amount nearest
to 10



Key Fact
Use symbol "≈"

for rounding off.

Rounding off nearest to 10 it becomes Rs. 1210. It has following rule.

Rounding Off Nearest to 10

 While rounding off nearest to 10 if the digit at units place is between 0 and 4 that is less than 5 the unit digit is replaced by zero.

24 ≈ 20

- If the digit at units place is 5 or greater than 5, then units place digit is replaced by '0' and tens place digit is increased by "1".
- While rounding off 36, 6 is the unit digit which is greater than 5, so
 6 is replaced by 0, and 1 is added to 3, so that, it becomes 40.

 $36 \approx 40$

Teaching Point Give cards of different numbers to students and ask them to compare these numbers.

Rounding off Nearest to 100

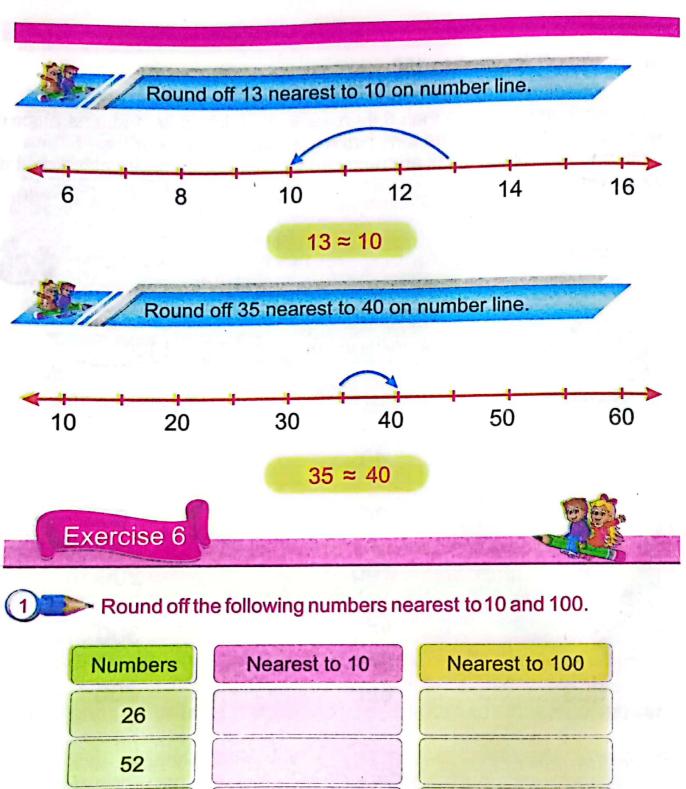
While rounding off to the nearest 100, if the digit at the tens place is between 0 and 5 or less than 5, then we replace the units and tens place digit with zero. If the digit at the tens place is equal to or greater than 5, then units and tens place digits are replaced by zero and hundred place digit is increased by 1.

It can be written as:

666 ≈ 700

To round of 666 nearest to 100. we get 700.

Round on the following flearest to 10 and 100.						
Numbers	Nearest to 10	Nearest to 100				
37	40	0				
82	80	100				
187	190	200				
345	350	300				
653	650	700				

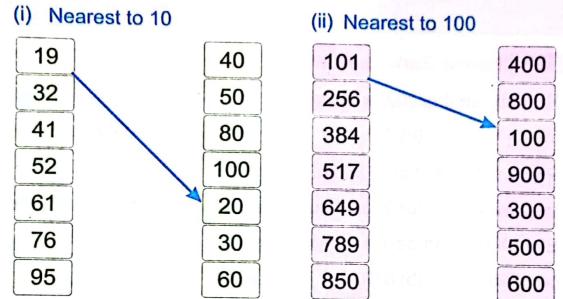


Numbers	Nearest to 10	Nearest to 100
26		
52		
327		
385		
750		

36

2

Match the following numbers with correct value after rounding off.



- 3 Round off 26 nearest to 10 on number line.
- 4 Round off 65 nearest to 10 on number line.

I Have Learnt



- Roman numbers are another way to represent numbers.
- The numbers which can be written in pair form are called even numbers.
- The numbers which can't be written in pair form are called odd numbers.
- Identify the place value of numbers up to 5 digits.
- A straight line on which the numbers are represented at equal intervals is called number line.
- Arrangement of numbers from lowest numbers to highest numbers is called ascending order.
- Arrangement of numbers from highest to lowest numbers is called descending order.
- Rounding off whole numbers nearest to 10 and 100.

Vocabulary

Even
Odd
Place value
Number line

Comparing Ordering

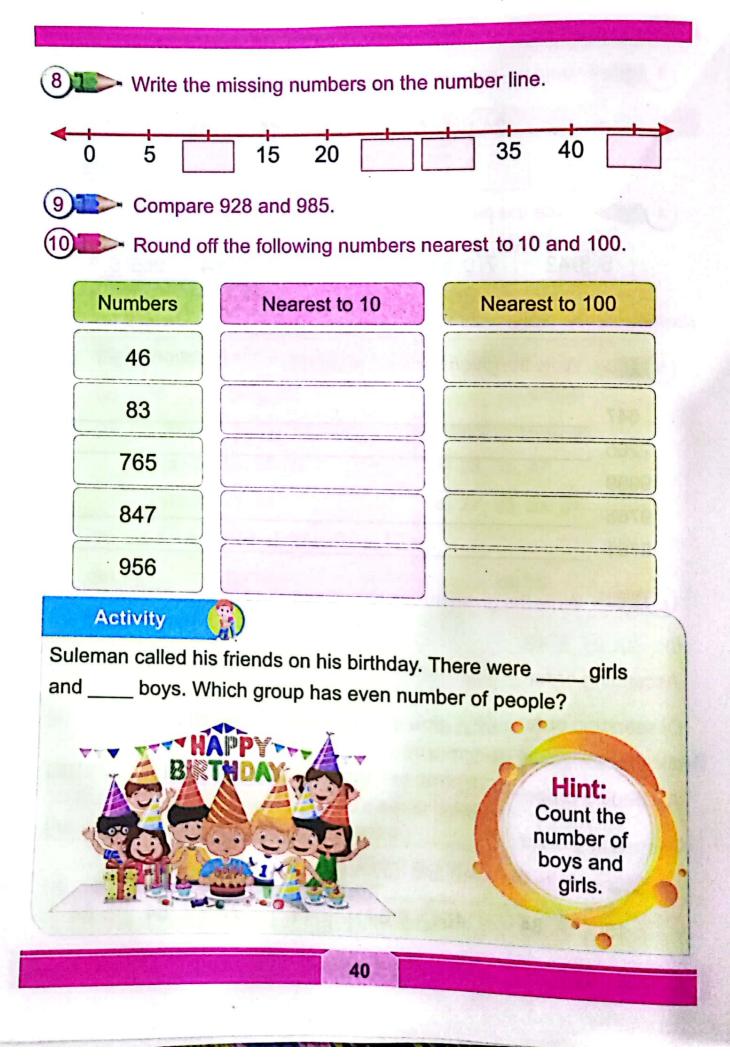
Estimation

Review Exercise



(1	Choos	e Correct An	swers.		
(i) Roman nun	nber XIX is eq	ual to:		1.
	(a) 10	(b) 11	(c) 19	(d) 20	
(ii)	Place value	of 2 in 2750 is	s:		
	(a) 2 tens	(b) 2 ten th	ousands (c)	2 thousands	(d) 2 hundreds
(iii)	Eight thousa	and seven hur	dred twenty	is equal to:	
	(a) 8720	(b) 8702	(c) 8072	(d) 870	20
(iv)	23, 25, 21 a	nd 27 can be	written in des	cending orde	r as:
	(a) 2	1, 23, 25, 27	. (1	b) 23, 25, 27	
	(c) 2	7, 23, 21	. (0	d) 27, 25, 23,	21
(v)	16 can be ro	unded off nea	rest to 10 as:		
	(a) 10	(b) 15	(c) 20	(d) 16	
2	Fill in	the blanks.	-		
(i)	25 can be ro	ounded off as	neares	st to 10.	
			(25 or 30)		
(ii)	In ascending	order numbe			· ·
,,,,,	Ni wahana afi		(lowest to	highest or hi	ghest to lowest)
(iii)	Numbers of	wheels in a ve	enicle are alw even or c		e e a la
(iv)	Numbers of	sides of a tria		ouu)	
			(even or c	odd)	
(v)	In an odd nu	mber unit digi		ak <u>(u</u>	
			(1,3,5,7,9)	or (0,2,4,6,8	

3) Write the following in Roman numbers.
2 5 8 11 15
Write the place values of encircled digits.
5342 7063 12865 80064 96563
5 Write the given numbers in words.
647
7265
9999
9765
8701
6 Write the given numbers in descending and ascending order.
(i) 27, 21, 3, 45
Ascending order
Descending order
(ii) 512, 321, 445, 241, 114
Ascending order
Descending order
7) Write the even and odd numbers separately.
15 34 45 64 71 77 84 88
39



Number Operations

Learning Outcomes:

After studying this unit, students will be able to:

- Add numbers up to 4 digit with and without carrying
- Add numbers up to 100 using mental strategies
- Solve real life number stories up to 4 digit with and without carrying involving addition
- Subtract numbers up to 4 digit with and without borrowing
- Subtract numbers up to 100 using mental strategies
- Solve real life number stories up to 4 digit with and without borrowing involving subtraction
- · Develop multiplication tables for 6, 7, 8, and 9
- Multiply 2-digit number by 1 digit number
- · Multiply a number by 0 and 1
- · Apply mental strategies to multiply 1 digit numbers to 1 digit numbers
- Solve real life situations involving multiplication of 2 digit numbers by 1 digit numbers
- Divide 2 digit number by a 1 digit number (with zero remainder)
- Apply mental strategies to divide 1-digit number by a 1 digit number
- . Solve real life situations involving division of 2 digit number by a 1 digit number

On Eid day Irfan received Rs. 50 from his uncle and Rs. 20 from his aunt as eidi. How much eidi did he receive?

Can you add and subtract numbers?

Addition upto 4-digit number without carrying



There are 3516 mango and 2322 guava trees in an orchard. What is the total number of trees?



To find total number of trees, we add them



Add ones.

6 ones + 2 ones = 8 ones



Add hundreds.

5 hundreds + 3 hundreds = 8 hundreds



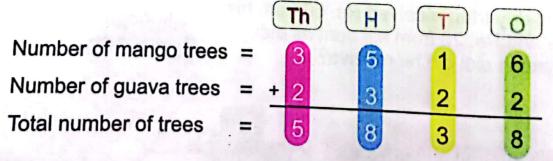
Add tens.

1 ten + 2 tens = 3 tens



Add thousands.

3 thousand + 2 thousand = 5 thousand



Total number of trees is 5838.

Teaching Point Teacher should guide students to write numbers in respective places according to place value of the digits.



A grocer sold vegetable for Rs. 2546 on Tuesday and Rs. 3443 on Wednesday. How much is the total sale of vegetables?



	Th H T O
Sale of on Tuesday	= 2546
Sale of on Wednesday	= +3 4 4 3
Total sale	= 5 9 8 9

Total sale = Rs. 5989

Addition of numbers upto 4-digits with carrying

Addition

Areeba has Rs.6388 while Affan has Rs. 2424. What is the total amount they have?





ریکآب محک تعلیم حکومت بلوچتان کی جانب سے تعلیم سال 2025 کیلئے مفت تنسیم کی جاری ہے اور تا تا بل فروخت ہے

Add ones.

8 ones + 4 ones = 12 ones and carry 1 ten

Write ones in ones column and carry 1 ten to the tens column.



Now, add carry ten and tens.

8 tens + 2 tens + 1 ten = 11 tens
carry 1 hundred
Write 1 ten in column of tens and write a carry hundred in hundreds.



Now add carry hundred and hundreds
3 hundreds + 4 hundreds + 1 hundred = 8 hundreds



Now add thousands in thousands
6 thousands + 2 thousands = 8 thousands
Write 8 thousands in thousands column
Thus, Areeba and Affan have total amount Rs. 8812.



There are 2685 number of boys and 1520 number of girls in a school. What is the total number of students in the school?

		Th	H	T	0
Number of boys	=	2	6	8	5
Number of girls	=	+ 1	5	2	0
Total number of students		1		^	

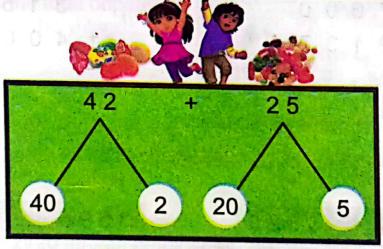


Total number of students in the school are 4205.

Add numbers upto 100 using mental strategies



Ahmed has 42 toffees and 25 biscuits. How can he find out the sum of these items?



$$40 + 20 = 60$$

$$2 + 5 = 7$$
 $= 67$

2025 كيلےمفت تحيم ك جارى إدرة كالل فروفت

Teaching **Point**

Teacher should explain the concept of adding with zero (0).

45





1

Solve the following.

2 Add the following numbers.

- i) 5794 , 3825
- ii) 3596 , 4752
- iii) 2179 , 5496
- iv) 6243 , 5727
- v) 6495 , 2156 vi) 3864 , 5676

 There are 3454 orange trees and 2345 guava trees in an

orchard.Find the total number

of trees.



Zubair paid Rs. 6758 and Rs. 3441 in March and April respectively, as gas charges. Find the total amount paid by him.

Population of a village A is 4536 and population of village B is 3253. Find the total population of both the villages.



There are 6540 male and 2120 female employees in an organization. Find the total number of employees.





Aliyan and Shahwaiz saved Rs. 4056 and Rs. 5430 respectively. Find out their total saving.





Add using mental strategies:

Subtraction of numbers upto 4-digits without borrowing



Zubair had Rs. 9899. He purchased household things. for Rs. 7545. How much amount is left with him?

		In	H		0
Zubair had total money	=	9	8	9	9
Total purchases	=	- 7	5	4	5
Remaining amount	=	2	3	5	4



Subtract ones from ones. 9 ones - 5 ones = 4 ones Write 4 in column of ones.



Subtract tens from tens.

9 tens - 4 tens = 5 tens Write 5 in column of tens.





Subtract hundreds from hundreds.

8 hundreds - 5 hundreds = 3 hundreds

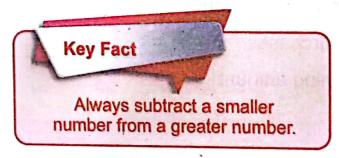
Write 3 in column of hundreds.



Subtract thousands from thousands.

9 thousands - 7 thousands = 2 thousands

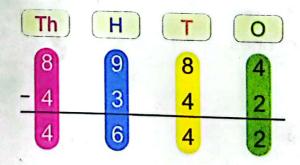
Thus, Rs. 3254 were left.



andrian to nottondidua



Subtract 4342 from 8984.



Difference = 4642.

Teaching Point Teacher should explain all steps involving subtraction to students and give them assignment for practice.



In an Eid Gah, 1982 people prayed their Eid Namaz if 1670 of them were men. Find the number of children.

Number of men people = 1 9 8 2

Number of men = -1 6 7 0

Number of children = 0 3 1 2

Number of children 312



Subtraction with borrowing

Ali has 2354 coins and Wali has 1260 coins. How much more coins Ali have than Wali?

Ali has 1094 coins more than Wali.



Subtracts ones from ones. 4 ones - 0 ones = 4 ones Write 4 in column of ones.



Subtract tens from tens.

We can not subtract 6 tens from 5 tens.

Therefore, we will borrow 1 hundred from hundreds.

Then, 1 hundred + 5 tens = 10 tens + 5 tens = 15 tens

Since, 1 hundred = 10 tens

Now, 15 tens - 6 tens = 9 tens Write 9 in column of tens.





Subtract hundreds from hundreds.

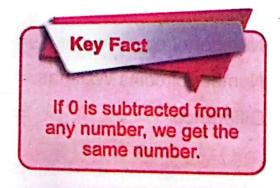
After giving 1 hundred as borrow to tens then there are 2 hundreds 2 hundreds - 2 hundreds = 0 hundred

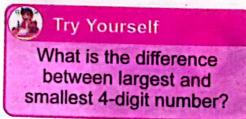
Write 0 in column of hundreds.



Subtract thousands from thousands.

2 thousands - 1 thousand = 1 thousand
Write 1 in column of thousands.
Thus, Ali has 1094 more coins than that of Wali.

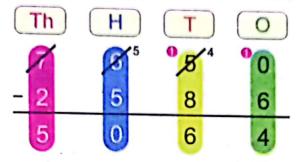




Teaching Point Teacher should guide the students about all steps of subtraction and give some questions for practicing.



Find the difference of 7650 and 2586.



Difference = 5064.



There were 5434 bags of wheat in a godown. 2956 bags were sold. How many bags of wheat are left in godown?

Remaining bags of wheat in godown were 2478.

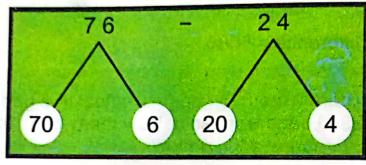


Subtraction of numbers upto 100 using mental strategies.



Bilal has Rs. 76. Spends Rs. 24. How much money is left with him?

We solve it by mental strategies as follows:

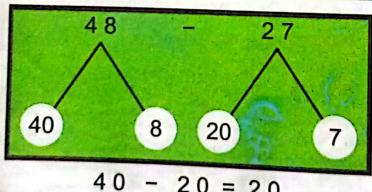


$$70 - 20 = 50$$
 $6 - 4 = 2$
 $= 52$

Bilal has Rs. 52.



Find the difference between 48 and 27?



$$0 - 20 = 20$$

 $8 - 7 = 1$
 $= 21$

Teaching Point Teacher should explain the concepts of mental subtraction to students and give some questions for practicing.

Exercise 2





Solve the following.

3 5 4 6 2 3 2 4

2 5 7 9 6 3 4 5 3

3 6 3 5 4 4 0 4 1

4 8 7 6 4 3 6 5 3

5 4 7 5 4 3 5 3 2

9876 6754

Solve the following.

9765

8 7 5 4 3 9 7 4

6 4 9 5 3 5 4 6

10 7 9 6 5 6876

11 8 6 7 8 7 8 9 6

12 8 5 4 3 7654



A book has 1535 pages in all. Zarina has read 424 pages. How many pages of the book are left?



Aamir and Gulraiz sell cloths. One day sell of Aamir is Rs. 6456 and sell of Gulraiz is Rs. 4340. How much more money Aamir has made after sell than Gulraiz?



Total number of men and women in a village is 6753. If the number of women is 3985 then find the number of men.



In a cattle farm, number of goats and sheep is 7516. If number of sheep is 5728 then find the number of goats.



Multiplication

Multiplication table of 6

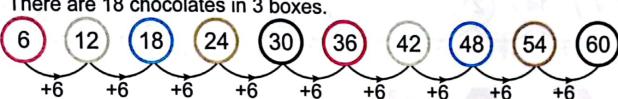
Faheem has 3 chocolate boxes. In each box, there are 6 chocolates. What is the total number of chocolates?



Chocolates in 3 boxes = 6 + 6 + 6 = 18

6 chocolates in 3 boxes = $6 \times 3 = 18$

There are 18 chocolates in 3 boxes.



Key Fact

When an even number is multiplied by 6 then we get the same even number in one's place.

$$1 \times 6 = 6$$

$$3 \times 6 = 18$$

$$5 \times 6 = 30$$

$$6 \times 6 = 36$$

$$7 \times 6 = 42$$

$$10 \times 6 = 60$$

Teaching **Point**

Teacher should guide students to develop multiplication of 6 using repeated addition.

Multiplication table of 7

Faheem has 3 chocolate boxes on each box there are 7 chocolates. What is the total number of chocolates.

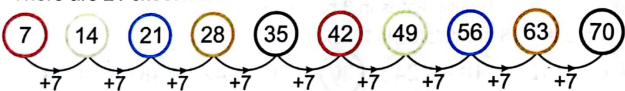
chocolates in 1 box = 7

chocolates in 3 boxes = 7+7+7=21

7 chocolates in 3 boxes = $7 \times 3 = 21$

There are 21 chocolates in 3 boxes.

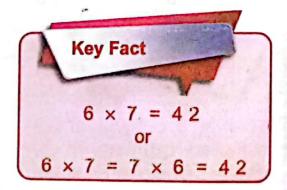




$$5 \times 7 = 35$$

$$6 \times 7 = 42$$

$$10 \times 7 = 70$$

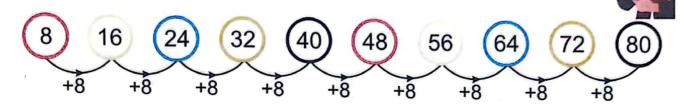




Teaching Point Teacher should guide students to develop multiplication table of 7 using repeated addition.

Multiplication table of 8

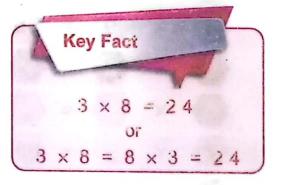
chocolates in 1 box = 8 chocolates in 3 boxes = 8+8+8=248 chocolates in 3 boxes = $8 \times 3 = 24$ There are 24 chocolates in 3 boxes. We can get multiplication table of 8 by adding 8 repeatedly.



$$1 \times 8 = 8$$

$$5 \times 8 = 40$$

$$6 \times 8 = 48$$



Teaching Point Teacher should guide students to develop multiplication table of 8 using repeated addition

Multiplication table of 9

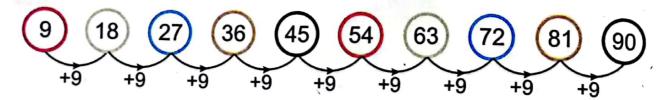
chocolates in 1 box = 9

chocolates in 3 boxes = 9+9+9=27

9 chocolates in 3 boxes = $9 \times 3 = 27$

There are 27 chocolates in 3 boxes.

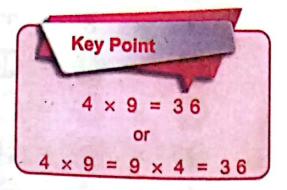




$$1 \times 9 = 9$$

$$5 \times 9 = 45$$

$$6 \times 9 = 54$$



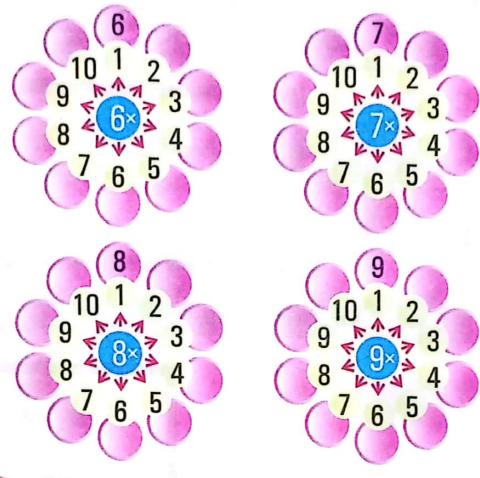
Teaching Point Teacher should guide students to develop multiplication table of 9 using repeated addition.

Exercise 3





Complete the following tables.



2 Fill in the boxes.

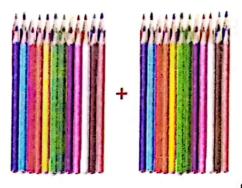
×	1	2	3	4	5	6	7	8	9	10
6	6				30				54	
7		14				42				70
8			24				56			
9				36				72		

61

Multiply 2-digit number by 1-digit number



Umair has 2 boxes with 24 pencils each. How many total number of pencils he has?



ACTUAL STREET			T	0
A STATE OF	Pencils in a box	=	2	4
California in the	Number of boxes	=		2
	Total number of pencils	=	4	8



Now we multiply 24 by 2.



Write the given question in vertical form and write ones under ones.

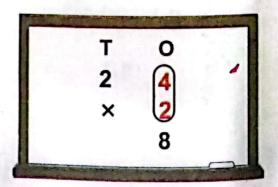
T	0	
2	4	
×	2	
		-



Multiply the digits at ones as

$$4 \times 2 = 8$$

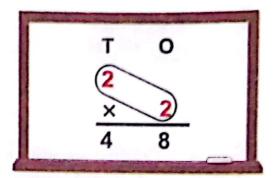
Write 8 in column of ones.





Multiply 2 at tens place by 2 at ones place as given.

$$2 \times 2 = 4$$



There are 48 pencils in the two boxes.



Cost of a Mathematics book of class III is Rs. 65. Then what is the price of 6 books?

Price of 1 book = 65

Price of 6 books = 6.5×6

= Rs 390





Write the numbers in vertical form.





Multiply 6 by 5 in ones place. as $6 \times 5 = 30$ Write 0 in column of ones and carry 3 in tens.





 $6 \times 6 = 36$

And add 3 tens.

36 tens + 3 tens = 39 tens

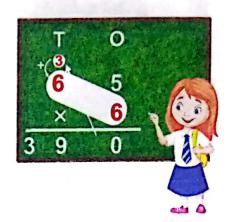
Write 9 in column of tens

and 3 in column of hundreds.

Price of 1 book = 65

Price of 6 books = 65×6

Cost of 6 books = Rs.390





Mahwish has 6 toys. If cost of one toy is Rs. 31 What is the cost of 6 same toys?

Cost of one toy = 31

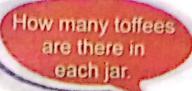
Cost of 6 toys = 6×31



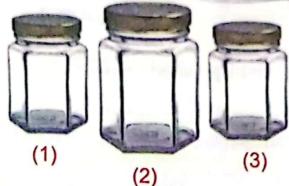


Thus, total cost of 6 toys is Rs. 186.

Multiply a number by 0 and 1







There are three empty jars of toffees. It means that there is no toffee in each of the jars.

Sum of toffees in three jars = 0 + 0 + 0 = 0

or

Multiply 3 by $0 = 3 \times 0 = 0$

Similarly,

$$4 \times 0 = 0$$

Multiplying a number by 0 we always get 0.



There are three baskets and in each basket there is only one apple.



Total number of apples = 1 + 1 + 1 = 3

Number of apples in three baskets = 3 x 1

Teaching Point Teacher should explain the concepts of multiplication by giving daily life examples.

If these three apples are placed in one basket then we can write as



Number of apples in a basket =
$$1 \times 3 = 3$$

Similarly, $1 \times 4 = 4$

If we multiply a number by 1 then we always get the same number.

Apply mental strategies to multiply 1-digit number by 1-digit number



Consider the multiplication of the following numbers.

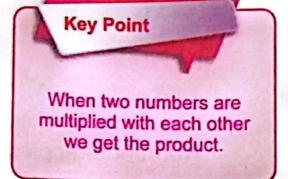
$$3 \times 6 = 18$$

$$4 \times 5 = 20$$

$$7 \times 4 = 28$$

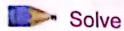
$$9 \times 8 = 72$$





Exercise 4









×



Solve the following using tables.

(i)
$$7 \times 6 =$$

$$(v) \qquad 4 \times 9 =$$

(11) Fill in the blanks.

12 Solve using mental strategies:

(vi)
$$7 \times 5 =$$

13 If Habib spends Rs. 24 in one day. Then how much money will he spend in 4 days?



There are 7 days in a week then how many days are there in 52 weeks?

000		Já	nua	iry				4	Fe	bru	ary		
8	W	1	W	T	,			M	1	w	1	•	
					1	.2	4-11-11	1	2	3	4	5	6
3	4	5	. 6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28						
31				,									
	1		May	16	8	4			3.4	June	9		
8	M	T	W	T	,			M	T	w		F	
8	u	T		-	•	1	•	-	1	2	3	4	5
2	3	4		-	7	1 8	6	7	1 8	-		4 11	5
2 9	3 10	4 11	w		7 14	1 8 15	6	7 14	1	2	3	4	5 13
9	-	4	w 5	6		1		7	1 8	9	3	4	9.3
	10	4 11	w 5 12	6 13	14	15	13	7 14	1 8 15	9 16 23	3 10 17	4 11 18	15



If there are 28 trees in one row then how many trees are in 5 rows?





A motorcycle can cover a distance of 62 kilometers in one litre of petrol. How many km will it cover in 4 litres?



Divide 2-digit number by 1-digit number (with zero remainder)

I have 30 marbles and I want to place them in 6 jars equally. How many marbles can be placed in each jar?





Dividing 30 by 6, we get 5.

Total number of marble = 30

Number of jars = 6

Number of marbles in one jar = $30 \div 6$

= 5

یر کاب محکر تعلیم حکومت باو چتان کی جانب سے تعلیم سال 2025 کیلئے ملت تعلیم کی جاری ہے اور نا قابل فروفت ہے



 $\begin{array}{c}
5 \longleftarrow \text{ Quotient} \\
\hline
\text{Divisor} \longrightarrow 6 \overline{\smash)30} \longleftarrow \text{ Dividend} \\
\underline{-30} \\
\hline
00 \longleftarrow \text{ Remainder}
\end{array}$

5 marbles can be placed in 1 jar.

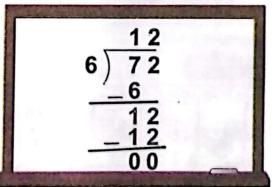


There are 72 mango trees in 6 rows. How many mango trees are in 1 row?

Number of mango = 72 trees

Rows of trees = 6

Number of trees in 1 = $72 \div 6$ row



There are 12 trees in 1 row.

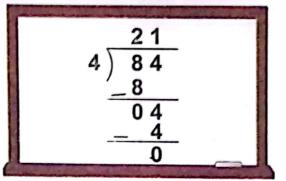


Distribute 84 pencils in 4 boxes equally.

Number of pencils -

Number of boxes

Number of pencils in = $84 \div 4$



There are 21 pencils in 1 box.

Key Fact

When 2-digit number is divided by 1-digit number, we divide the number in tens place first and then the number in ones place.

Key Fact

Division means distributing things equally.

Apply mental strategies to divide 1-digit number by 1-digit number.



Consider the division of the following numbers.

$$6 \div 2 = 3$$

$$9 \div 3 =$$

$$8 \div 2 = 4$$

$$8 \div 4 = 2$$

3

Teaching Point Teacher should guide the students that process of division can be made easy by dividing things into groups.

Exercise 5



Solve

$$7 - 48 \div 4 =$$

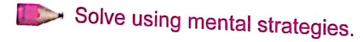
$$9 - 84 \div 7 =$$

$$11 - 96 \div 8 =$$

$$10_{-}$$
 51 ÷ 3 =

÷ 4

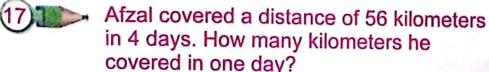
14-



$$13 - 4 \div 2 =$$

15_

$$9 \div 3 =$$









The price of 1 packet of biscuits is Rs. 5. I have Rs. 70. How many packets I can buy?





Zubair bought 7 notebooks for Rs. 91. Find the price of one notebook.





If the price of 1 pencil is Rs. 8. How many pencils can be bought in Rs. 48?





I Have Learnt

- Addition upto 4-digit number (with an without carrying).
- Subtraction upto 4-digit number (with and without borrowing)
- When 0 is added in any number then we get the same number.
- Subtraction is basically difference of two numbers.
- Always subtract smaller number from a greater number.
- When 0 is subtracted from any number then we get the same number.
- When 6 is multiplied by an even number then we get the same even number in ones place.

For example,
$$4 \times 6 = 24 \cdot 6 \times 6 = 36$$

$$2 \times 6 = 12$$

- Repeated addition of numbers is called multiplication.
- When any number is multiplied by 1 we get the same number.
- When any number is multiplied by 0 then we get 0.
- When 2-digit number is divided by 1-digit number then we divide digit in tens place firstly and then in ones place.



Review Exercise



Choose the correct answer.

i)	Sun	n of 1564 a	and 7	325 is		الله ال		
	(a)	8888	(b)	8889	(c)	8899	(d)	8886
ii)	Diffe	erence of 6	6351	and 1265	is			
	(a)	5056	(b)	5076	(c)	5086	(d)	5096
iii)	188	6 is	le	ss than 32	46.			
	(a)	1350	(b)	1360	(c)	1370	(d)	1380
vi)	The 7 ba	ere are 6 e askets.	ggs ir	n a basket.	The	n	_eggs	s are in
	(a)	21	(b)	28	(c)	35	(d)	42
v)	Wh	en any nu	mber	is multiplie	ed by	0 we get		belde -
				1				
vi)	Mul	tiplying 12	by 1.	We get _	7 / 14	grafic pales on a		
	(a)	13	(b)	112	(c)	12 .	(d)	14
vii)	Divi	ding 24 by	6, w	e get	2. 2			
	(a)	4	(b)	5	(c)	6	(d)	7
viii)	Divi	ding 84 by	4, w	e get	45.00	AND A SECOND		
	(a)	18	(b)	19	(c)	20	(d)	21

Unit 3

Fractions

(Learning Outcomes)

After studying this unit, students will be able to:

- Express the fractions in figures and vice versa
- Match the fractions with related figures
- Recognize proper and improper fractions
- Differentiate between proper and improper fractions
- Identify equivalent fractions from the given figures
- Write three equivalent fractions for a given fraction
- Compare fractions with same denominators using symbols "<", ">", or "="
- Add two fractions with same denominators
- Represent addition of fractions through figures
- Subtract fractions with same denominators
- Represent subtraction of fractions through figures





Common Fractions

مد کاب محر تعلیم حکومت بار چتان کی جانب سے تعلیم سال 2025 کیلیے ملت تعلیم کی جاری ہے اور نا قالی فروفت ہے

Saima's father brought a watermelon for Iftar. When mother started cutting watermelon, Saima was observing keenly.



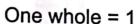
Mother explained her that each piece of watermelon is half or $\frac{1}{2}$.

Saima asked her mother!
It was a watermelon but
you have to cut it into
two pieces.

and and and











Half = $\frac{1}{2}$



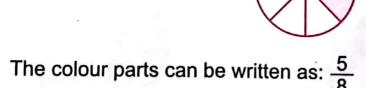


One fourth = $\frac{1}{4}$



In the figure at the right, three out at four parts are white.

The figure below is divided into 8 equal parts. Five parts out of eight are coloured.



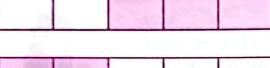
Teaching Point

Explain the concept of common fraction, using daily life examples.



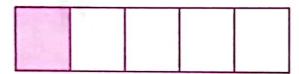
Match the given figures to the fraction.



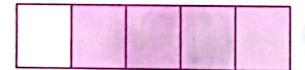




<u>3</u>



<u>4</u> 5





How many parts of a whole:

- The top number, the numerator, says how many parts have used.
- The bottom number, the denominator, says how many equal parts the whole is divided into.

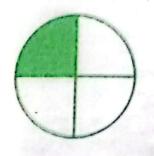
Exercise 1



Identify numerator and denominator in the following fractions.

$$\frac{2}{7}$$
, $\frac{3}{7}$, $\frac{5}{8}$, $\frac{2}{5}$, $\frac{10}{13}$, $\frac{9}{10}$, $\frac{1}{8}$, $\frac{2}{3}$, $\frac{4}{7}$, $\frac{3}{4}$

Write the fraction represented by the shaded part of the following figures.

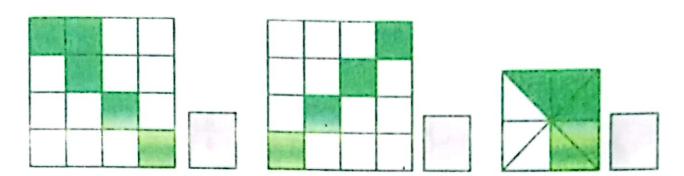




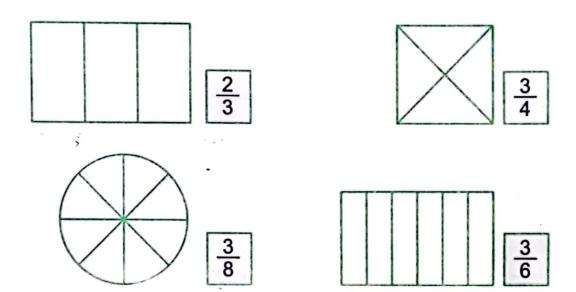




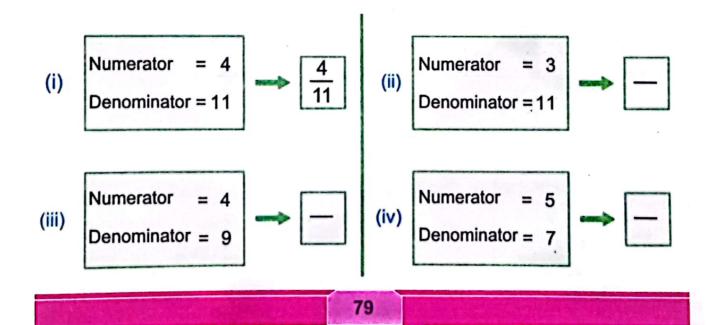




3 Colour the following figures according to the given fractions.



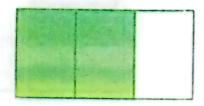
Write the fraction from the given numerator and denominator.



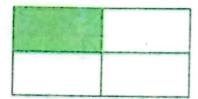


Match the following figures to the given fractions.

(i)



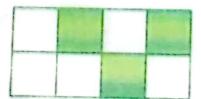
(ii)



(iii)



(iv)



2

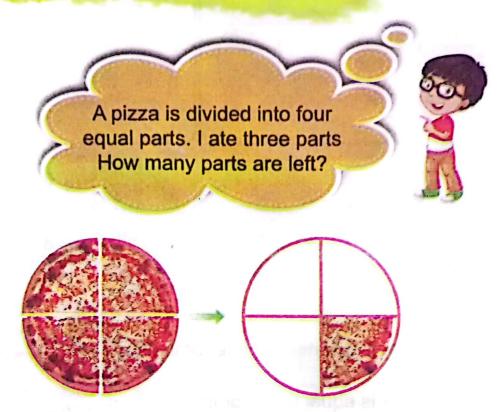
(V)



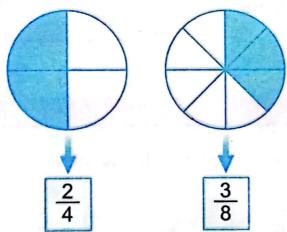
(vi)



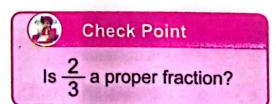
Proper and Improper Fractions



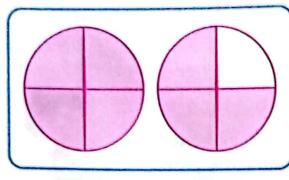
Similarly, the left over part can be written as fraction = $\frac{1}{4}$.

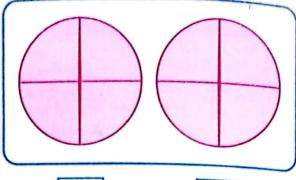


In these fractions, numerator is less than denominator. Therefore, these fractions are called proper fractions.



Improper Fractions





4 4



3 4

4





 $\frac{4}{4}$

8 8

 $ln\frac{7}{4}$, numerator is greater than denominator.

 $ln\frac{8}{8}$, numerator is equal to denominator.

Therefore, both of these fractions are improper fractions.

Key Point

If numerator of a fraction is greater than or equal to the denominator then the fraction is called improper fraction.

Exercise 2





Write proper or improper fractions in the following boxes.

(i)
$$\frac{3}{4} =$$

(ii)
$$\frac{4}{5} = \frac{1}{100}$$

(iii)
$$\frac{4}{3}$$
 =

(iv)
$$\frac{4}{9} = \frac{1}{9}$$

$$(v) \qquad \frac{7}{5} = \boxed{}$$

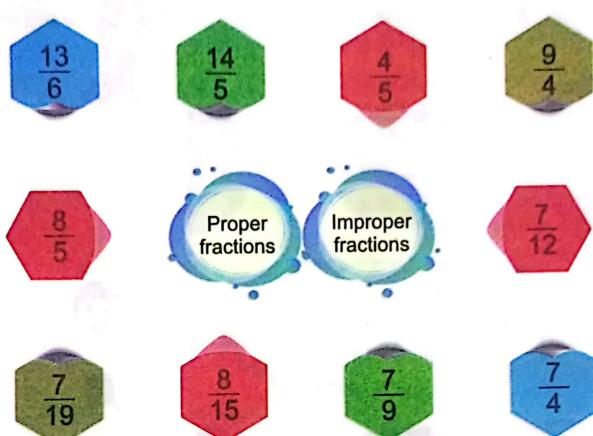
(vi)
$$\frac{9}{5} = \frac{1}{100}$$

(vii)
$$\frac{8}{9} = \frac{1}{9}$$

(viii)
$$\frac{3}{7} =$$

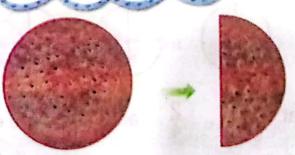
(ix)
$$\frac{7}{7}$$
 =

2 Match proper and improper fractions in the following.



Equivalent Fractions

Umair divides a bread into two equal parts and eats $\frac{1}{2}$ of it.





Nosheen has a bread. She divided it into four equal parts and ate $\frac{2}{4}$ of it.







Uzair has a bread. He divided it into eight equal parts and ate $\frac{4}{8}$ of it.







We observed that Umair, Nosheen and Uzair ate same amount of bread.

Fractions $\frac{1}{2}$, $\frac{2}{4}$ and $\frac{4}{8}$ look different but actually they ate same amount of bread.



So, we can say that:

1/2

2/4

and

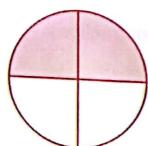
48

are equivalent fractions.

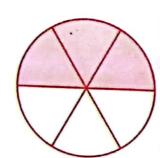
To find equivalent fractions, multiply or divide the numerator and the denominator by the same non zero number.

We can write three equivalent fractions of $\frac{1}{2}$ as:

$$\frac{1}{2} = \frac{1 \times (2)}{2 \times (2)} = \frac{2}{4}$$



$$\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$$



Try Yourself

What will be three equivalent fractions of $\frac{2}{3}$?

 $\frac{1}{2} = \frac{1 \times \cancel{4}}{2 \times \cancel{4}} = \frac{4}{8}$



To get equivalent fraction, multiply numerator and denominator by a number greater than 1.

Key Fact

Thus, three equivalent fractions of $\frac{1}{2}$ are

$$\frac{2}{4}$$
, $\frac{3}{6}$ and $\frac{4}{8}$

Teaching Point Explain the concept of equivalent fractions by using daily life examples.







Match the equivalent fractions.

(i)



8/14

(ii)



 $\frac{1}{2}$

(iii)



1<u>5</u> 21

(iv)



9 24

(v)



<u>6</u>10

(vi)



10 18



Write three equivalent fractions of the following.

(i) $\frac{5}{6}$

(ii) $\frac{2}{3}$

(iii) $\frac{1}{4}$

(iv) $\frac{5}{8}$

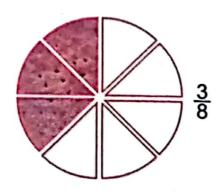
(v) $\frac{3}{5}$

(vi) $\frac{2}{5}$

Comparing Fractions



Saba eats $\frac{5}{8}$ part of a bread.





Who eats less?

When denominators of the fractions are same then we compare their numerators.

In $\frac{3}{8}$ and $\frac{5}{8}$, denominators are same and 3 is less than 5.

So, $\frac{3}{8} < \frac{5}{8}$

Therefore, we can say that Ali ate less.

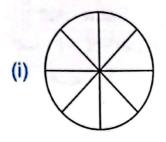


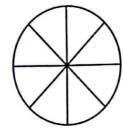
In two fractions with same denominators, a fraction having greater numerator than other fraction is a greater fraction. While fractions with same numerators are equal fractions.

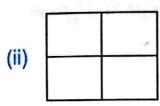
xercise 4

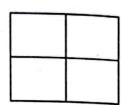


Colour the following figures and then use < or > sign.







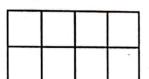


(iii)



(iv)





 $\frac{2}{3}$



Use < , > and = in the following fractions.

- (i) $\frac{3}{9}$

- (ii) $\frac{3}{5}$

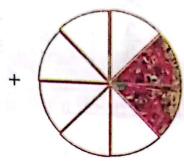
- (iii) $\frac{4}{7}$

Addition of Fractions

Zaryab and Nayab ordered one pizza. The pizza was divided into 8 equal parts. Zaryab ate 3 pieces of pizza. Nayab ate 2 pieces of her pizza. How much pizza did they eat altogether?



Zaryab's ate



Nayab's ate



Total ate

To find the total slices of eaten pizza, we will add $\frac{3}{8}$ and $\frac{2}{8}$.

The total slices of pizza eaten = $\frac{3}{8} + \frac{2}{8}$

$$=\frac{5}{8}$$

Key Fact

To add fractions with same denominator we add numerators only.

Teaching Point Explain the concept of addition of two fractions with same denominator to students.





Solve.

$$(1) \ \frac{3}{7} + \frac{2}{7}$$

(1)
$$\frac{3}{7} + \frac{2}{7}$$
 (2) $\frac{3}{5} + \frac{1}{5}$ (3) $\frac{1}{9} + \frac{4}{9}$ (4) $\frac{5}{12} + \frac{2}{12}$ (5) $\frac{1}{8} + \frac{3}{8}$ (6) $\frac{1}{6} + \frac{3}{6}$

(3)
$$\frac{1}{9} + \frac{4}{9}$$

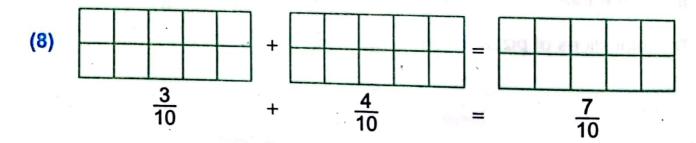
(4)
$$\frac{5}{12} + \frac{2}{12}$$

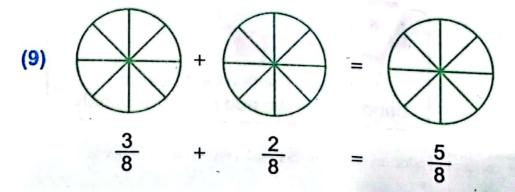
(5)
$$\frac{1}{8} + \frac{3}{8}$$

(6)
$$\frac{1}{6} + \frac{3}{6}$$

Colour the figures according to the given fractions.

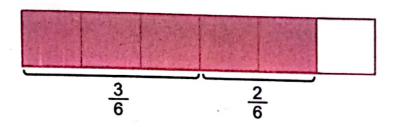
(7)
$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$





Subtraction of Fractions

Shahzain and Tabish bought a chocolate in which Shahzain ate $\frac{3}{6}$ of the chocolate and Tabish ate $\frac{2}{6}$ of the chocolate. How much more chocolate has eaten by Shahzain than that of Tabish.



$$=\frac{3}{6}$$

$$=\frac{2}{6}$$

$$=\frac{3}{6}-\frac{2}{6}$$

$$=\frac{3-2}{6}$$

$$=\frac{1}{6}$$

Key Fact

To subtract fractions with same denominator, we subtract the numerators only.

Exercise 6



Solve. Selection of the residue of the selection of the s

$$(1) \quad \frac{3}{7} \quad - \quad \frac{1}{7}$$

(1)
$$\frac{3}{7} - \frac{1}{7}$$
 (2) $\frac{5}{9} - \frac{1}{9}$

$$(3)$$
 $\frac{3}{5}$ $\frac{2}{5}$

$$(4)$$
 $\frac{5}{8}$ - $\frac{2}{8}$

(5)
$$\frac{7}{12} - \frac{3}{12}$$

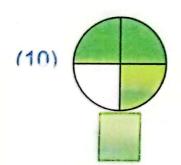
(6)
$$\frac{5}{6} - \frac{3}{6}$$

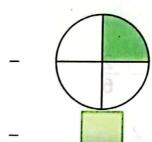
$$(7)$$
 $\frac{5}{8}$ - $\frac{3}{8}$

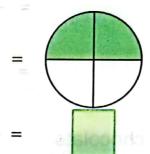
$$(8)$$
 $\frac{5}{11}$ $-\frac{3}{11}$

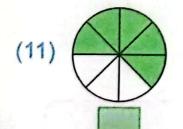
$$(9)$$
 $\frac{7}{15}$ $\frac{3}{15}$

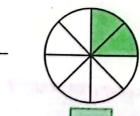
Write fractions and solve.

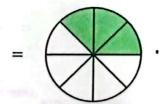


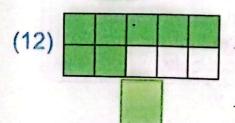


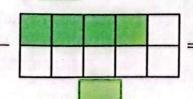


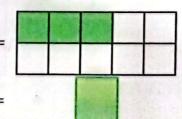












I Have Learnt

يركآب محرتيليم كومت بلوجتان كاجاب سيقليى سال

- If we divide a thing into equal parts then part/parts taken out of whole is called numerator.
- Total number of parts of a thing is known as denominator.
- In proper fraction, numerator is less than denominator.
- In improper fractions, numerator is greater than or equal to the denominator.
- Those fractions which are equal to each other are called equivalent fractions.
- In two factions with same denominator, fraction having greater numerator than other fraction is a greater fraction. If numerator of two fractions are equal then they are equal fractions.
- In two fractions with same denominators, only add numerators.
- In two fractions with same denominators only subtract numerators.

Vocabulary

Proper Fraction Improper Fraction Equivalent Fraction Compairing Fractions Common Fractions Addition of Fractions Subtraction of Fractions

Review Exercise



(
U	

Choose the correct answer.

- A fraction in which numerator is less than denominator is called fraction.
 - (a) proper
- (b) improper (c) equivalent (d) common
- A fraction in which numerator is greater than denominator is called _____ fraction.
 - (a) equivalent (b) common
- (c) proper
- (d) improper

- (iii) Equivalent fraction of $\frac{2}{5}$ is ____
- (a) $\frac{4}{3}$ (b) $\frac{4}{7}$ (c) $\frac{4}{6}$
- (d) $\frac{4}{10}$
- (iv) Sum of two fractions $\frac{3}{15}$ and $\frac{4}{15}$ is ____
 - (a) $\frac{1}{15}$
 - (b) $\frac{7}{15}$ (c) $\frac{7}{30}$
- (d) $\frac{1}{30}$
- (v) Difference of two fractions $\frac{7}{9}$ and $\frac{3}{9}$ is _____
- (a) $\frac{4}{9}$
- (b) $\frac{10}{9}$ (c) $\frac{10}{18}$
- (d) $\frac{4}{18}$
- 2 Identify numerators and denominators of the following fractions.

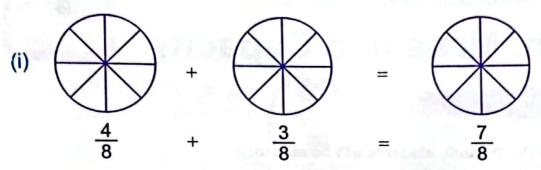
$$\frac{2}{9}$$
, $\frac{3}{7}$, $\frac{4}{5}$, $\frac{10}{7}$, $\frac{4}{15}$, $\frac{11}{6}$

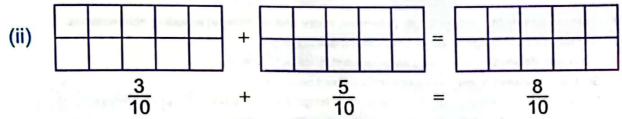
3) Separate proper and improper fractions from the following

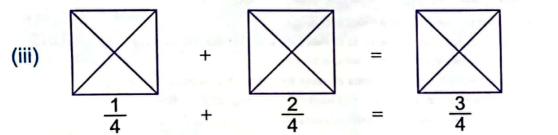
$$\frac{3}{5}$$
, $\frac{7}{5}$, $\frac{9}{6}$, $\frac{3}{8}$, $\frac{5}{9}$, $\frac{6}{6}$, $\frac{7}{18}$

- 4) Use < , > and = signs of the following fractions.
- (i) $\frac{8}{9}$ $\frac{4}{9}$ (ii) $\frac{5}{7}$ $\frac{6}{7}$ (iii) $\frac{4}{5}$ $\frac{4}{5}$
- Write three equivalent fractions of the following fractions. (i) $\frac{2}{3}$ (ii) $\frac{4}{5}$ (iii) $\frac{3}{7}$ (iv) $\frac{3}{8}$

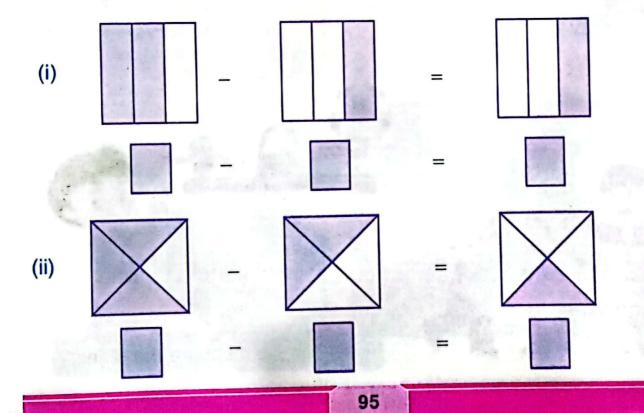
6 Colour the figures according to the given fractions.







7) Show the following figures by fractions.



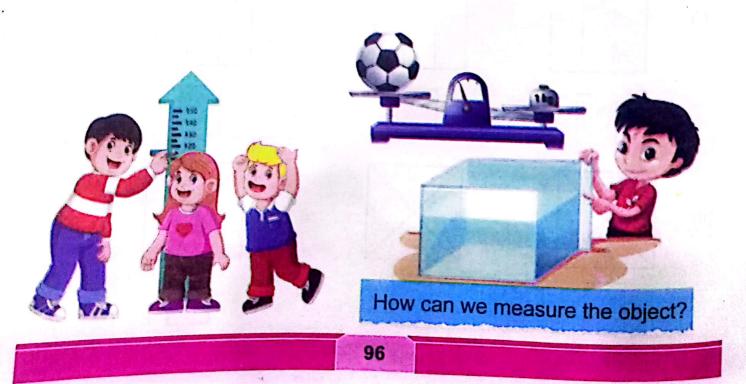
Measurement: Length, Mass and Capacity

Unit 4

(Learning Outcomes)

After studying this unit, students will be able to:

- Use standard metric units of length (kilometre, metre and centimetre) including abbreviations.
- Add measures of length in same units without carrying.
- Solve real life situations involving same units of length for addition.
- Subtract measures of length in same units without borrowing.
- Solve real life situations involving same units of length for subtraction without borrowing.
- Use standard metric units of mass (kilogram and gram) including abbreviations.
- Add measures of mass in same units without carrying.
- Solve real life situations involving same units of mass for addition without carrying.
- Subtract measures of mass in same units without borrowing.
- Solve real life situations involving same units of mass for subtraction without borrowing.
- Use standard metric units of capacity (litre and millilitre) including abbreviations.
- Add measures of capacity in same units without carrying.
- Solve real life situations involving same units of capacity for addition without carrying.
- Subtract measures of capacity in same units without borrowing.
- Solve real life situations involving same units of capacity for subtraction without borrowing.



Length

How distance is measured from home to school?







Key Fact

Metre is represented as = m

Centimetre is represented as = cm

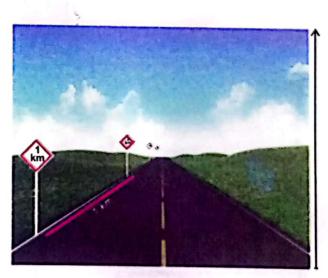
1 metre = 100 cm

Usually schools are far away from home, so this distance is measured in kilometre (km)









About 1 m

Measurement in km

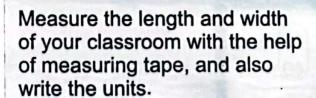
97

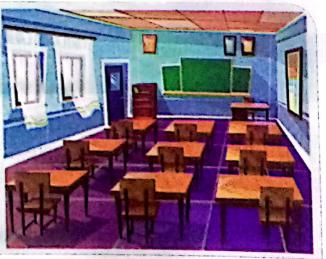


 Which unit is suitable for measuring the following objects (metre/ centimetre).



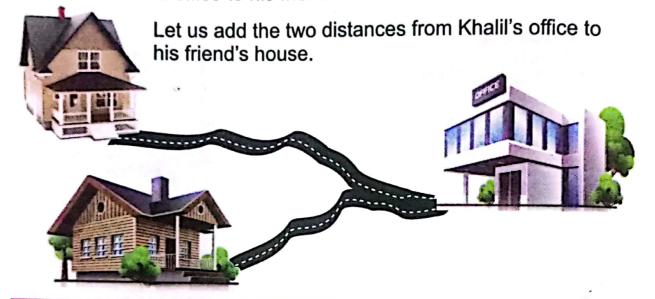
Teaching Point



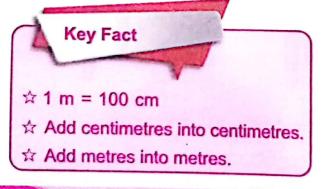


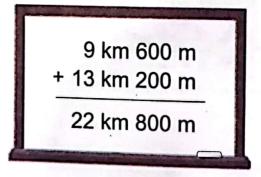
Addition of Length

The distance from Khalil's office to his house is 9 km 600 m and the distance from the office to his friend's house is 13 km 200 m.

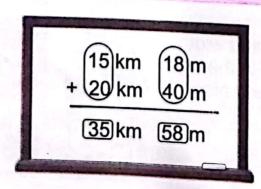


Add 9 km 600 m and 13 km 200 m.





Add kilometres into kilometres.





Arsalan bought 4 m 70 cm cloth Rizwan bought 5 m 20 cm cloth. Find total length of cloths they bought.



Arsalan's cloth = 4 m 70 cm

Rizwan's cloth = + 5 m 20 cm

Total cloth 9m 90cm

The total length of cloths is 9 m 90 cm.



Furqan went to his sister's house for eid greetings. Distance of his sister's house is 3 km 400 m. Then they went to their grandmother's house which is 5 km 300 m away from his sister's house. Find the distance covered by Furqan.



5 km 300 m

Distance of Furqan's home from = his sister's house 3 km 400 m

= + 5 km 300 mDistance from sister's house to grandmother's house

Total distance

8 km 700 m

Furgan covered 8 km 700 m distance.







Add the following.

1. 6 5 cm 4 m 12 cm + 5 m

2. 14m 50 cm 9 m 40 cm

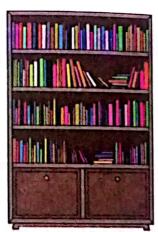
101

3.	7 km	632m			
	+8km	214m			

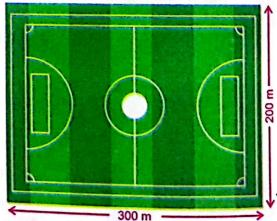
4. 25km 312m +21km 676m

6. 41km 745m +38km 134m

7 Ahmed used two wooden boards of lengths 3 m 10 cm and 4 m 35 cm for making book shelf. Find the total length of two wooden boards.



Junaid jogs along the ground with length of 300 m and width of 200 m. What is the total distance he covered in one round?

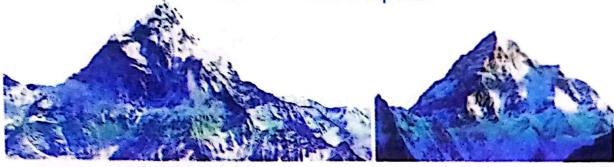


9 In a long jump, Pervaiz jumps 4 m 25 cm in his first attempt and 5 m 15 cm in his second attempt. Find the total distance he covers in two jumps?



Subtraction of Lengths

Mount Everest is the highest peak in the world, with the height of 8848 m. K-2 is the second highest peak with the height of 8611 m. How much high the Mount Everest than K-2 peak?



Mount Everest

K-2

We will subtract the two heights to find the difference of heights of two peaks.



Subtract 8611m from 8848m

8848 m - 8611 m 237 m



Try it

Which unit is suitable for the following

- Length of football ground.
- Height of Math book.
- Distance from Quetta to Islamabad.



Subtract 252 m 34 cm from 357 m 85 cm.

375 m 85 cm - 252 m 34 cm 123 m 51 cm



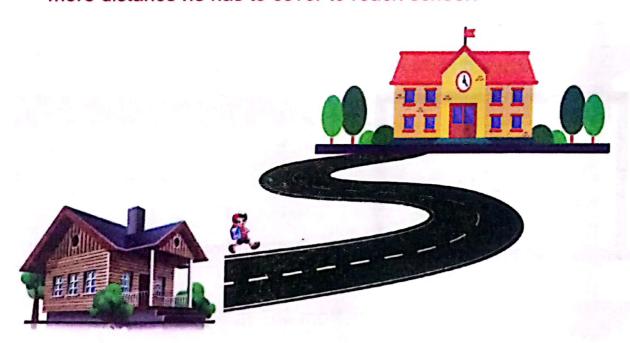
A shopkeeper sold 16 m 34 cm cloth from 38 m 45 cm cloth. How much cloth is left?

38 m 45 cm - 16 m 34 cm 22 m 11 cm

Remaining cloth is 22 m 11 cm.



Asif has to cover a distance of 2 km 300 m to reach school. He covered 1 km 200 m distance with his friend. How much more distance he has to cover to reach school?



Total distance to school = 2 km 300 m

Distance covered with friend = - 1 km 200 m

Remaining distance to reach school = 1 km 100 m

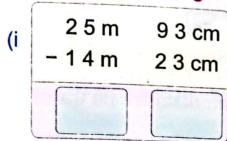
Asif has to cover 1 km 100 m more distance to reach the school.

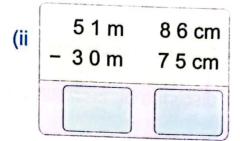
Exercise 2



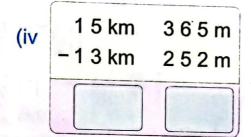


Solve the following.

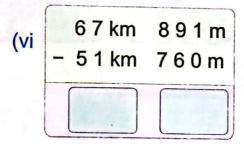




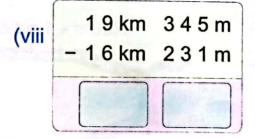
(iii 76 m 67 cm - 35 m 41 cm



(v 35 km 786 m -13 km 675 m



(vii 19 km 345 m - 16 km 231 m

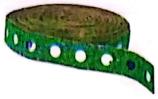


2

Arsalan used 35 m 65 cm water pipe from 78 m 89 cm long pipe. How much pipe is remaining?

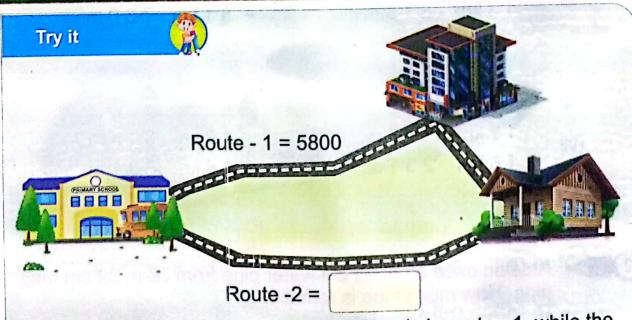


Rehana bought 19 m 82 cm lace and used 8 m 61 cm from it on her shirt. Find the length of remaining lace.



On returning from London Subhan travelled 950 km 460 m distance on bus and taxi. If he had travelled 900 km 230 m distance by bus. Find how much distance he travel on taxi?





Suleman travels 5800 meter to reach school via route - 1, while the distance from route - 2 to reach the school is 800 meter less. Find:

- What is distance of route-2?
- What is total distance of route -1 and route-2?

Mass



How can we weight different objects?















Key Fact

Standard unit of mass is kilogram and gram.

We measure mass of heavy objects in kilograms (kg) and mass of light objects in grams (g)



107



Addition of Mass

برکاب محرفتیم محومت باد چنان کی جاب سے تعلیم سال 2025 کیلے ملے تعمیم کی جاری ہے اور نا تا بل فروض ہے

Ahmed bought 49 kg 600 g flour and 50 kg 200 g sugar. Find the total mass.



We will add both masses to find sum.



- Add kilograms in kilograms.
- Add gram in grams.
- \bullet 1 kg = 1000 g

49 kg 600 g + 50 kg 200 g 99 kg 800 g

Add 17 kg 735 g and 32 kg 264 g.



Key Fact

- Kilogram is represented as kg
- Gram is represented as

1 7 kg	735g
+ 3 2 kg	264g
4 9 kg	999g

109



Hameeda bought 6 kg 500 g apple and 4 kg 250 g peaches. Find the total masses of both fruits.

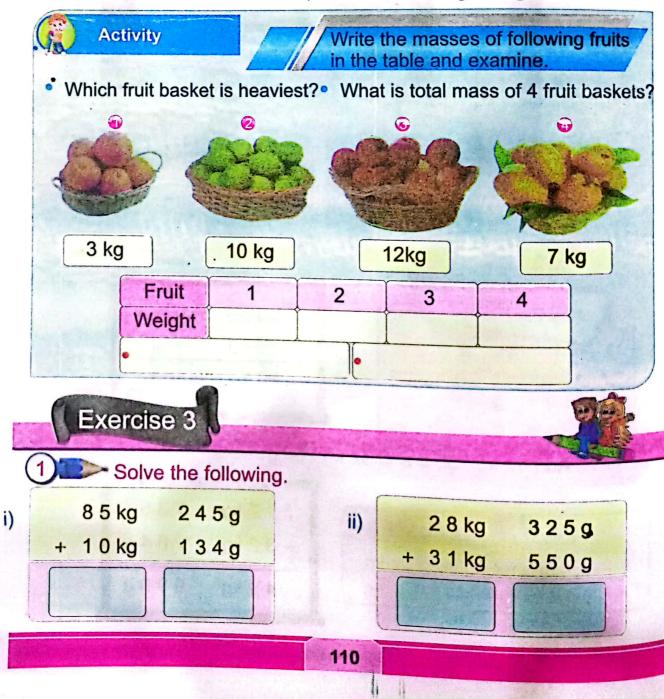


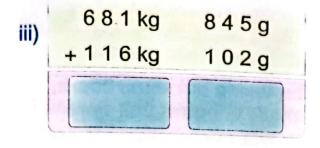
```
Apple = 6 \text{ kg} 500 \text{ g}

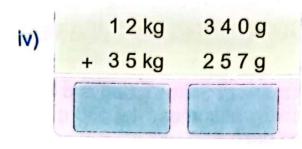
Peach = + 4 \text{ kg} 250 \text{ g}

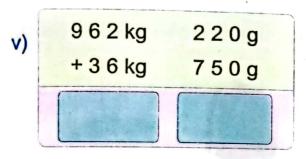
Total mass = 10 \text{ kg} 750 \text{ kg}
```

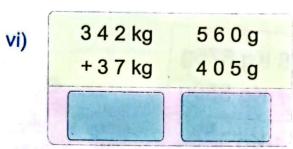
Hence, total mass 10 kg 750 g.











The masses of Zara and Suleman's bags are 10 kg 300 g and 12 kg 400 g respectively. What is the total mass?



Rizwan bought 6 kg 250 g sweet biscuits and 3 kg 500 g salted biscuits. Find the total mass of the bistcuits.



Sohail bought 15 kg 500 g almond and 12 kg 250 g pistachio. What is the total mass?

Subtraction of Mass

The mass of Salma's bag is 8 kg 675 g. After taking out some books, the mass becomes 7 kg 550 g. What is the mass of books that were taken out?

8 Kg 675g 7 Kg 550g 1 Kg 125g



We will subtract to find the difference.



Subtract 12 kg 321 g from 17 kg 432 g.

17 kg 432 g
- 12 kg 321 g
5 kg 111 g



Try it

What is most suitable unit for the following masses.

- Mass of bicycle.
- Mass of pencil.



Subtract 22 kg 125 g from 35 kg 235 g.

35 kg 235 g - 22 kg 125 g 12 kg 110 g

112



Areeba bought two watermelons with a total mass of 8 kilogram 656 gram. If the small watermelon is 3 kilogram 250 gram then what is the mass of the large watermelon?

Total mass of two watermelons: Mass of small watermelon	:	8 kg	656g
	: -	3 kg	250g
Mass of large watermelon	=	5 kg	406g

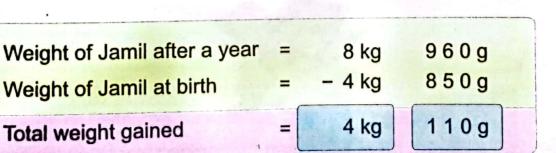
Mass of large watermelon is 5 kg 406 g.





Jamil weighed 4 kg 850 g at birth. He weighed 8 kg 960 g a year later. How much weight did he gain in one year?



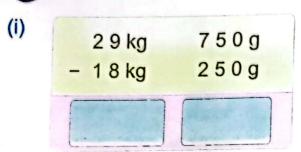


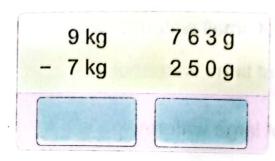
Jamil gained weight of 4 kg 110 g in a year.

Exercise 4

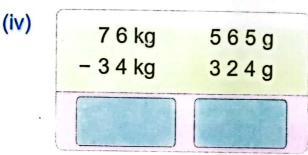


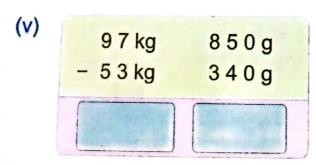
1 Solve the following.

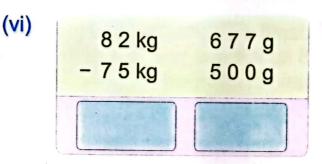












la Mpievy

A shopkeeper sold 16 kg 250 g chocolate from 27 kg 350 g chocolate carton. How much chocolate is left?

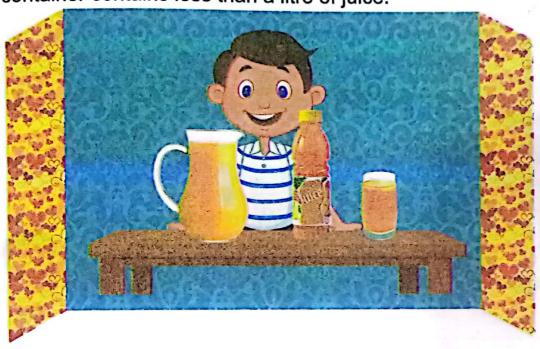
(ii)



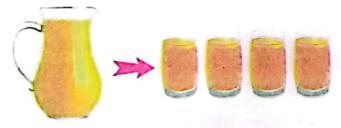
200 kilogram meat was used for cooking from 240 kilogram meat carton. How much meat was left?

Capacity

Which container contains less than a litre of juice.



- A glass contains less than a litre of juice.
- The capacity of jug is equal to 4 glasses of juice.



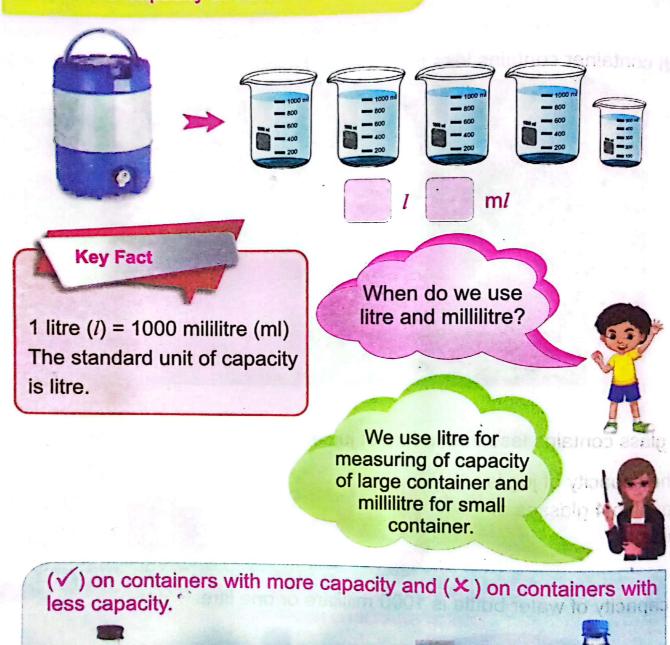
The capacity of water bottle is 1000 millilitre or one litre.

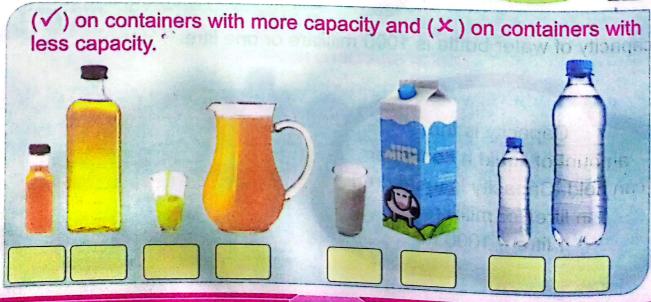
Capacity is the amount of liquid a container can hold. Capacity is measured in litres or millilitres.

1 litre = 1000 ml

115

What is the capacity of water in the cooler?





Addition of Capacity

A fish tank contains 3 litres 450 millilitres of water. 4 litres 500 millilitres of water is added. What is the total quantity of water?





To find out the total quantity of water, you have to add the two quantities.



Add 3 litres 450 millilitres to 4 litres 500 millilitres.



Key Fact

- Add mililitres in mililitre.
- Add litres in litre.
- 11 = 1000 m1



Add 12 litre 765 mililitre to 11 litre 231 millilitres.



Rizwan's mother runs a home based catering service. She had 20 litres 300 millilitres of oil. For a special dish she need 10 litres 500 millilitres more oil. How much oil did she need altother?

301

800 ml



Total oil needed for the special dish is 30 litres and 800 millilites.



Asif works in a doctor's clinic. He bought 2 litres 100 millilitres hand sanitizer on Monday and 3 litres 300 millilitres on Wednesday. How much did Asif buy altogether?

Monday = 2l 100 mlWednesday = +3l 300 ml

Total = 5l

3 0 0 ml 4 0 0 ml

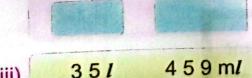
Hence, Asif bought total 5 / 400 ml of hand sanitizer.





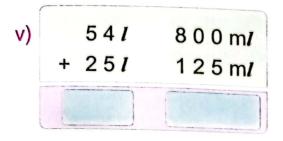


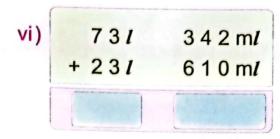
Solve.

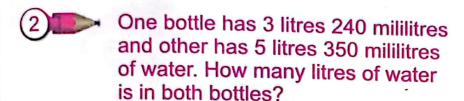


118

iv)









A house uses 35 litres of canola oil and 15 litres of soybean oil. How many litres of oil are used in total.



Farida asks for 3 / 500 ml of milk for the children to drink and 4 litres of milk for tea. How many litres of milk does Farida order?



Subtraction or Capacity

The capacity of a water cooler is 6 *l* 800 ml. Farhan has a bottle with a capacity of 1 *l* 500 ml. He fills the bottle from the cooler. How much water is left in the water cooler?



We will subtract to find the quantity of water.

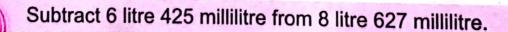


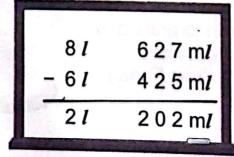
Subtract 1 litre 500 millilitre from 6 litre 800 millilitre.

6 l 800 ml - 1 l 500 ml 5 l 300 ml



- Subtract litres from litres.
- Subtract millilitres from millilitres.





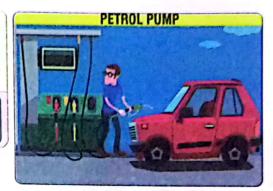


Arif bought 45 litre 500 millilitre petrol and used 30 litres of petrol. How many litres of petrol is left in the car?

Petrol bought = 451 500 ml

Petrol used = -301 000 ml

Petrol left = | 151 | 500 ml



15 / 500 ml of petrol is left.



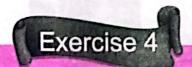
A container had 5 litre 750 millilitres of juice. Ahmed drank 550 ml and his elder brother drank 2 l of juice. How much juice is left?



Juice in the container = 5l 7 5 0 mlTotal juice drank = -2l 5 5 0 ml

Juice left = 3 1 2 0 0 m1

3 litre 200 millilitre juice is left in the container.



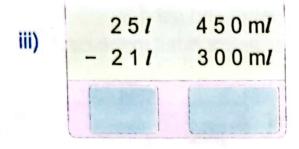


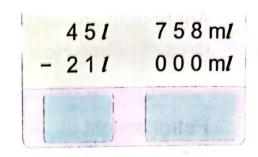


Solve the following.

i) 81 742 ml - 71 421 ml

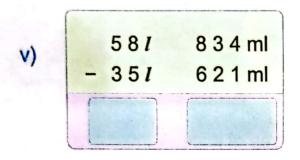
ii) 181 655 ml - 121 321 ml

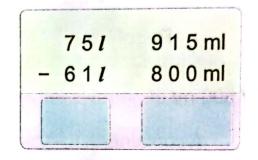




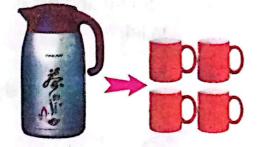
iv)

vi)





A thermos contains 2000 ml of tea, 1500 ml tea was served to the guests. How much tea is left in the thermos?



3 Salman took 2 litres 450 millitre of water in a bottle to school. One litre of water was in the bottle till break. How much water he drank?

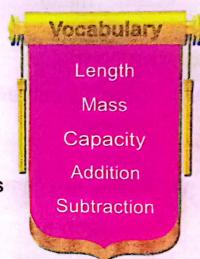


Ahmar buys 15 *l* 500 m*l* of milk to make milkshake. In the evening he had 3 litres of milk left. Tell how much milk he used?





- To add measures of length in same units without carrying.
- To subtract measures of length in same units without carrying.
- To add measures of mass in same units without carrying.
- To subtract measures of mass in same units without borrowing.
- To add measures of capacity in same units without carrying.
- To subtract measures of capacity in same units without borrowing.







- 1 Choose the correct options.
- i) What is the appropriate unit to determine the length of a needle?
 - (a) kilometer

(b) meter

(c) centimeter

- (d) mililitre
- ii) How many litres of water are saved after extracting 2000 ml of water from 3500 ml of water.
 - (a) 500 ml

(b) 1000 ml

(c) 1500 ml

(d) 2000 ml

123

- iii) What is standard unit of mass?
 - (a) meter

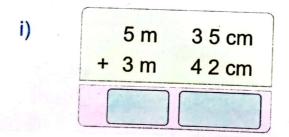
(b) litre

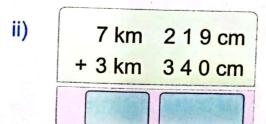
(c) kilometer

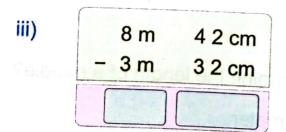
- (d) kilogram
- iv) What are abbreviation of unit of litre?
 - (a) ml
- (b) g
- (c) l
- (d) kg
- v) If I had two cans of 800 ml juice, what would be the total quantity?

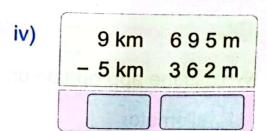
 - (a) 200 ml (b) 1000 ml (c) 800 ml (d) 1600ml

Solve the following.

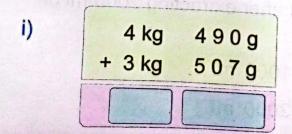


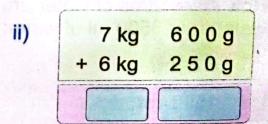


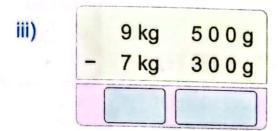


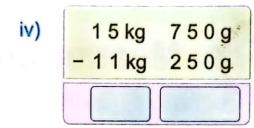


Solve the following.



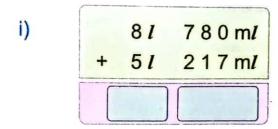


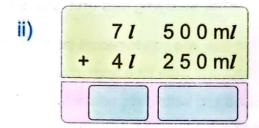




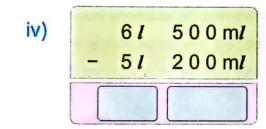


Solve the following.









The mass of two sacks of rice is 100 kg and 80 kg respectively. What is total mass of both?



A shopkeeper sold 120 meters of ribbon out of 350 meters. Find out the length of the rest of ribbon.



A water bottle has a capacity of 9 litres. It contains 3 litres of water. How many more litres of water are needed to fill it?



رین ب محد تعلیم حکومت بلوچتان کی جانب سے تعلیمی سال 2025 کیلے مفت تعلیم کی جاری ہے اور نا تا بل فرونت ہے



Measurement: Time

Learning Outcomes:

After studying this unit, students will be able to:

- Use a.m and p.m to record the time from 12-hour clock.
- Read and write time from analog and digital clock.
- Read and write days and dates from the calender.
- Add measures of time in hours.
- Solve real life situations involving measures of time for addition of hours.
- Subtract measures of time in hours.
- Solve real life situation involving subtraction of measures of time in hours.



Look at the clock, What is the time?

Analog and digital clocks



Umair: Look Aziz! My father has brought this watch.

Aziz Wow! It is a beautiful watch. Can you tell the time usage?



Umair: Yes Aziz, why not: It has a minute hand and an hour hand. It is an analog watch.



Aziz: My mother has also bought a clock for me in which no hour hand and minute hand are shown and we can see the time in this way.





Umair: This is called a digital clock.





Look at the clocks and write the time.

We get up early in the morning.





6:00 a.m

Children go to school.





a.m

It is off time of school.

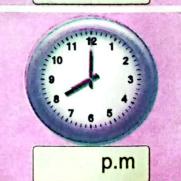




p.m

We take dinner.





Key point

The time from midnight to 12 noon is known as ante meridiem which can be written as (a.m). Similarly, the time from 12 noon to midnight is known as post meridiem which can be written as (p.m).



Read the time from analog clock and write in the boxes.









- There are one to twelve digits on the dial of an analog clock.
- Long hand shows the minutes and small hand shows hours.
- I hour = 60 minutes.



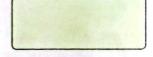
From the given digital clock, read time and write in the boxes.



There are only digits in the digital clock. Left side digits show the hours while right side digits show the minutes.









Teaching Point Teacher place analog clock and digital clock in front of students and help them in reading time. Repeat this activity a number of time.





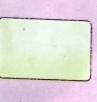


Write the time in a.m and p.m in the following boxes.

Khalid goes to the office in the morning.







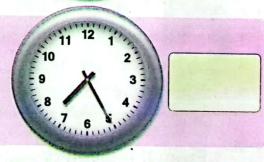
ii) Children play foot ball in the evening.





iii) Ayesha rides on bus for going to school.





village from the city in the evening.



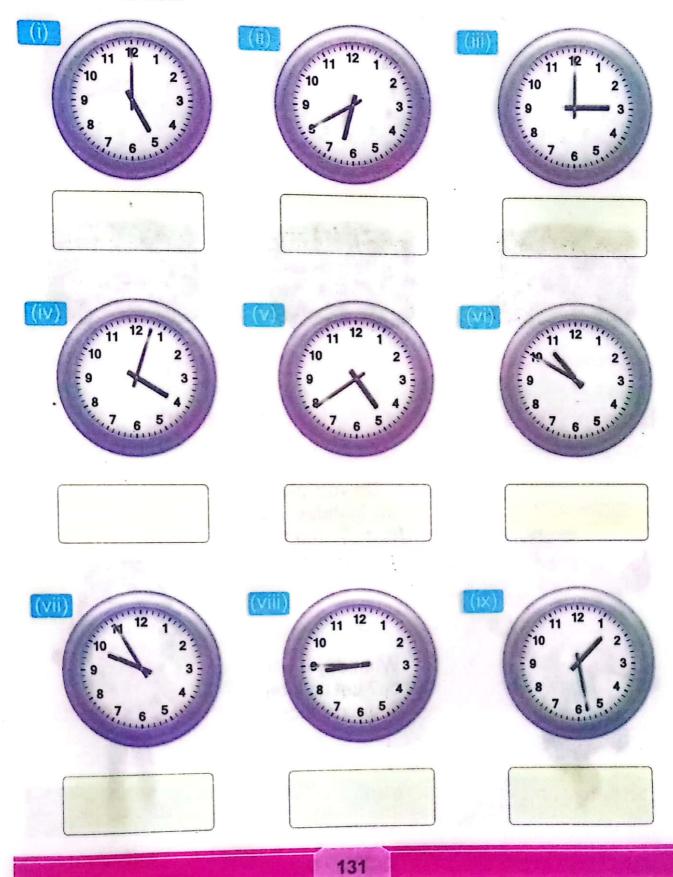


v) We take dinner.





Read the time from the following analog clock and write in the box.



3 Match the time in the following analog clock and digital clock.













Read and write days and dates from the calender.



Do you know my birthday is on March 7th. You must come.

What day it will be? Let us look at the calender.



Calender

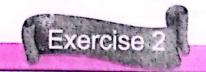
Sun	Mon	Ja	nua	гу	En	Sat	Sun	Nan	Fet	orua	ary			March Sun Mon Tue Wed Thu Fr Sat								April								
31					1	2	Oth	1	2	3	ши Д	5	6	Sun	Mon	Tue		Thu			Sun	Mon	Tue	Wed	Thu	746.0	Sat			
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10	11	12	13	14	15	16	14		150	10.00		12		7	8	9	10	11	12	13	4	5	6	7	8	9	10			
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In calender, March 7th is Sunday.





Teaching Point Teacher will hang the calender in the class and ask the students to mark their birthdays.





Calender

January Sun Mon Tue Wed Thu Fri Sat													ary		Sat	Cur	Mon		larc			April Sun Mon Tue Wed Thu Fri Sat									
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Look at the calender and answer the following questions.

- i) What is the day on January 31?
- ii) Umair's birthday is on second Wednesday of April. What is the date?
- iii) Ahsan's examination are starting from December, 3. What is the day?
- iv) What is the date on last Friday of February?
- v) What is the day on March,23?



Addition of time

A train takes 12 hours from Quetta to Sukhur and 9 hours from Sukhur to Multan. How much time it takes from Quetta to Multan?



Time taken by train from Quetta to Sukhur.

= 12 h

Time taken by train from Sukhur to Multan

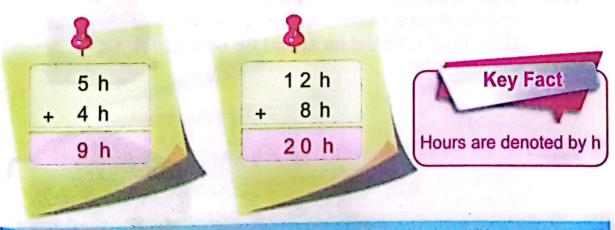
= + 9 h

Total time take = 21 h

Thus train will reach in 21 hours from Quetta to Multan

i) Add 5 hours to 4 hours

ii) Add 12 hours to 8 hours

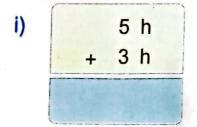


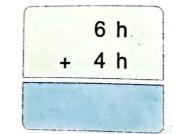
Teaching Point Teacher ask questions about real life situations related to addition of time from different groups of students.

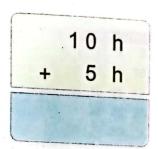




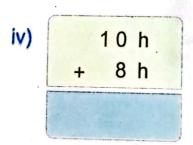


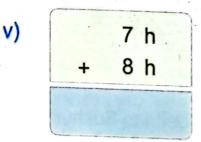


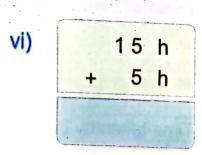




iii)







- Saiqa's mother spends 5 hours for household chores and 2 hours for reading books. How much time did she spend altogether?
- Waleed studies Science for 10 hours and Mathematics for 8 hours in a week. How much time did he spend for both of the subjects?

ii)



A bus takes 9 hours to reach from Peshawar to Zhob and takes 8 hours from Zhob to Quetta. What is the total time taken from Peshawar to Quetta?





Subtract measures of time in hours

Ahmed took 8 hours for preparation of Mathematics test while Bilal took 12 hours. How much more time did Bilal spend?



Time taken by Bilal = 12 h

Time taken by Ahmed = - 8 h

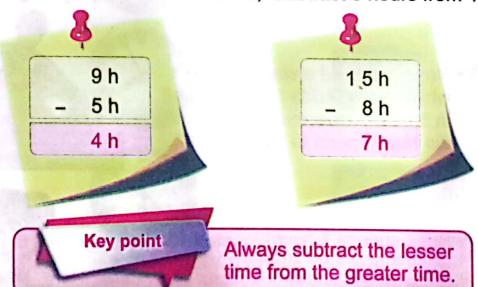
More time taken by Bilal than Ahmed = 4 h

Bilal spend 4 hours more than Ahmed



Subtract the following

i) Subtract 5 hours from 9 hours ii) Subtract 8 hours from 15 hours

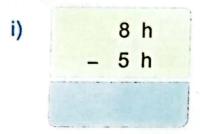


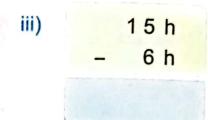
Teaching Point Teacher should ask questions about real life situations related to subtraction of time from different groups of students.

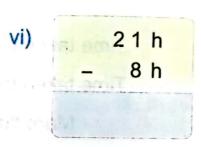












- Affan took 4 hours while his sister Areesha took 2 hours for cycling. How much more hours did Affan spend for cycling than Areesha? If Areesha started cycling at 11:00 a.m. then at what time did she stop cycling?
- Nasir can build a wall in 8 hours while Umair builds the same wall in 5 hours. How much more time did Nasir spend to build a wall?



Saira spends 5 hours for studying Science while 8 hours for studying Mathematics. How much more time did she spend for Mathematics than Science?

V)



I Have Learnt

- ☆ There are 12 digits on the dial of analog clock.
- ☆ Long hand shows the minutes and the small hand shows the hours.
- Addition and Subtraction of time is similar to the addition and subtraction of numbers.

Digital Clock
Analog Clock
Hour Hand
Minute Hand

Review Exercise



1

Match the time of analog clock with digital clock in the following figures.

















- 2 Ahmed studies Mathematics for 3 hours, English for 2 hours and Islamiat for 1 hour. How much time did Ahmed spend altogether?
- 3) Answer the following questions.
- What is the date on first Monday of May.

Calendar

- ii) What is the day on May, 15?
- iii) What is the date on second Friday of May?
- iv) What is the date on the third Saturday of May?
- v) What is the day on May, 31?

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A car took 5 hours from
Rawalpindi to Lahore while
6 hours from Lahore to
Multan. How much time
did car take to reach
from Rawalpindi to Multan?



A train took 13 hours from Lahore to Sukhur. If the same train took 6 hours from Lahore to Multan. How much time did the train take to reach Sukhur from Multan?



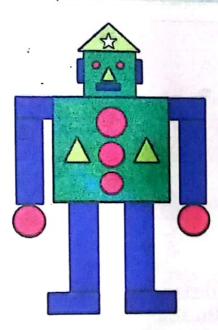
Geometry

Unit 6

Learning Outcomes:



- Draw and measure line segments to the nearest centimeter and millimeter.
- Recognize point, line, ray and line segment.
- classify figures according to number of sides as quadrilaterals (rectangles, square) and triangles.
- calculate perimeter of square, rectangle and triangle
- Identify center, radius and diameter of a circle.
- Identify reflective symmetry in two-dimensiond (2-D) shapes.
- Identify and draw lines of symmetry
- Describe 3-D object (cubes, cuboids, and pyramids) with respect to the number of edges and faces.
- Differentiate 3-D object (cubes, cuboids, and pyramids) with respect to number of edges and faces.

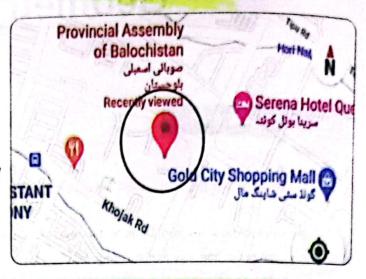


List down the shapes, you can see in the figure.

Point, line, ray and line segment

Point

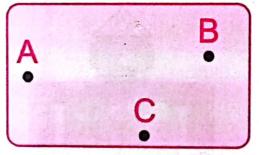
Ayesha and Rizwan are navigating Quetta on Google Maps. Ayesha searched for Provincial Assembly and Rizwan for Serena hotel. They saw that both the locations of the places are identified by points on the Google Maps.



These points identify the correct location of the places

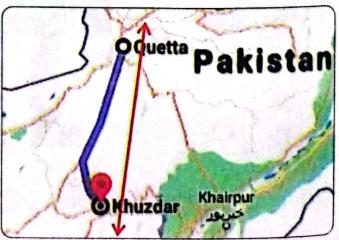


The points are used for location of place or positions of objects. A point is represented by dot (.), on paper, and is denoted by capital letters as shown below.



Line

On Google Maps, the distance between Quetta and Khuzdar is shown by a line.





A line is a straight path that keeps going on in both directions. It is represented by AB.



The above line can be represented by AB

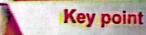


- A line has no end point
- A line extends in both directions

Ray



A ray is a part of a line. It has fixed initial point but can be extended to other directions. It is represented by AB



- A ray has one end point
- A ray extends in one direction.

Fixed point A Ray



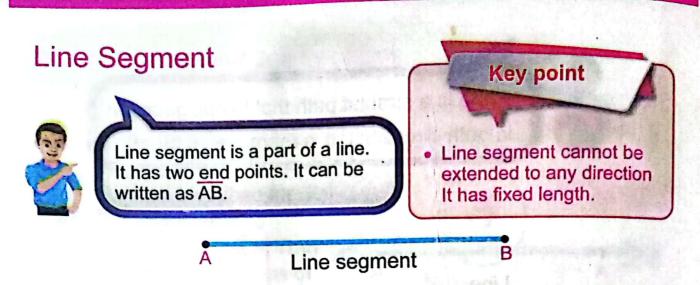
no end point



Check Point

Can we write?

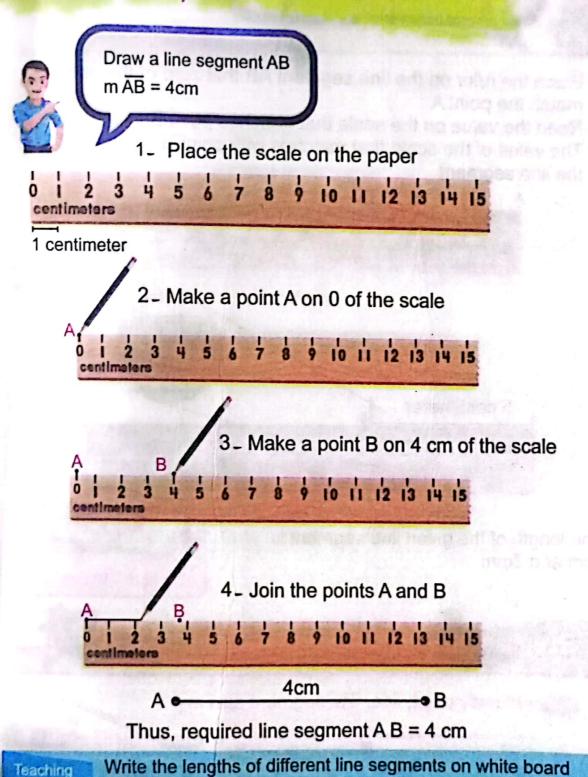
AB = BA



The length of the line segment AB is 4cm and is written as: $\overline{AB} = 4cm$



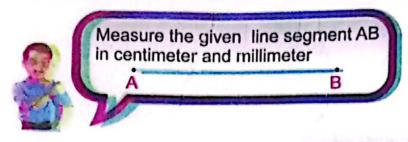
Draw and measure line segment (centimeter and millimeter)



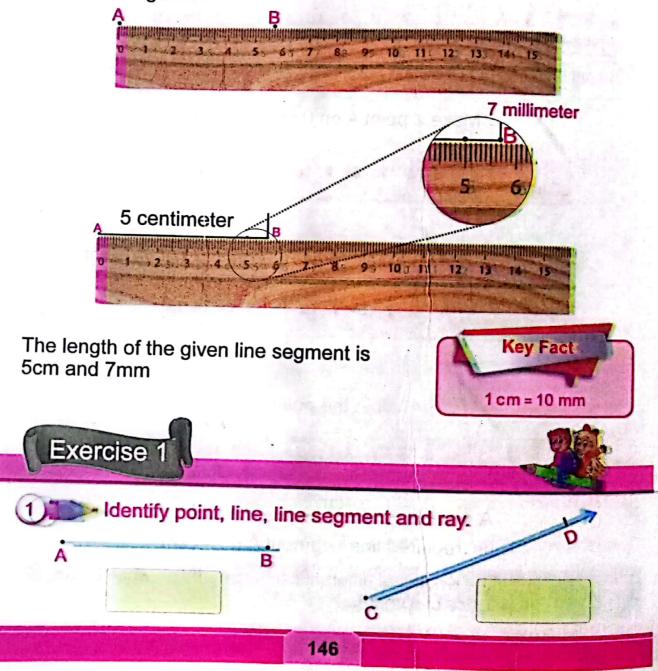
145

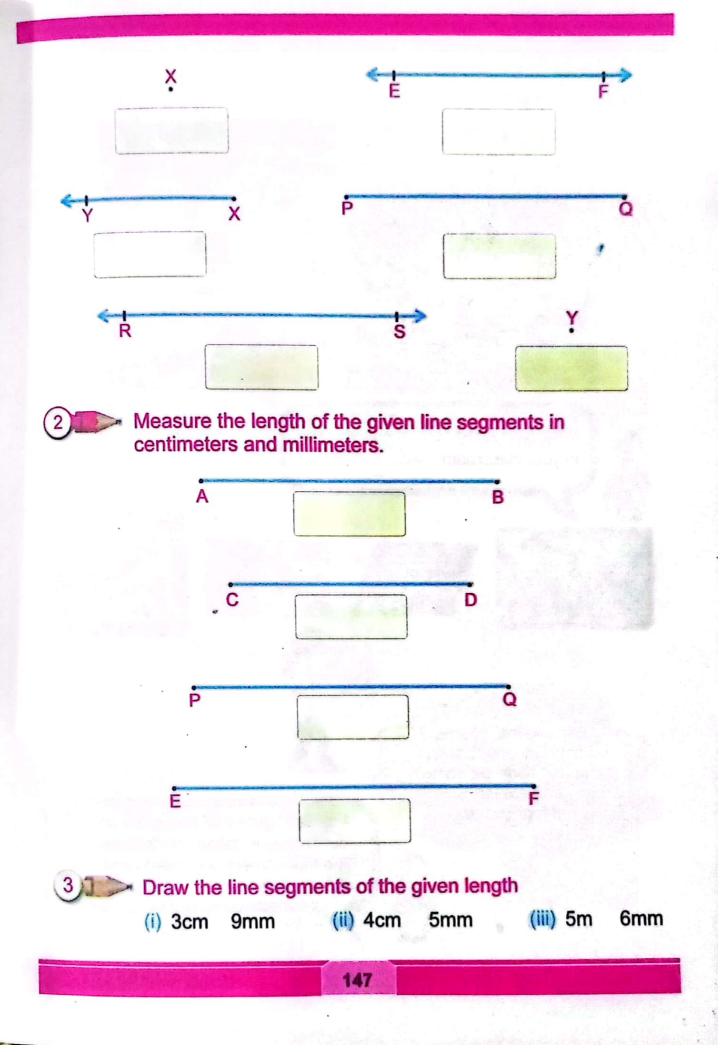
for practice of students.

Point

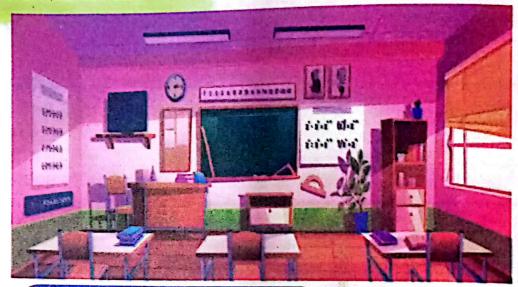


- Place the ruler on the line segment AB that zero of the scale match the point A
- 2. Read the value on the scale that matches point B
- 3. The value of the scale that matches with point B is the length of the line segment





Quadrilaterals





What four sided objects can you see in your classroom.





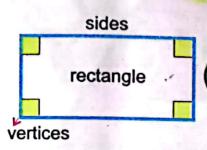


I can see that shapes of door, window, board, table and book are same. They all have four sides and four corners.

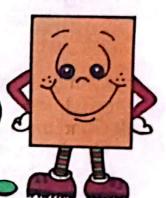


A closed figure with four sides and four corned is called quadrilateral. The four corners are called vertices of the quadrilateral





I am a rectangle.
I have four straight sides
and four vertices. The length
of my opposite sides
are equal.

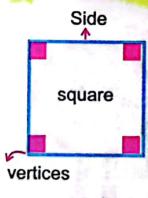




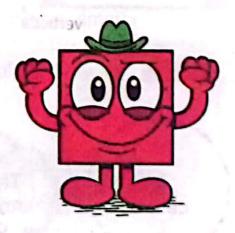


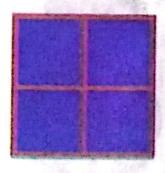


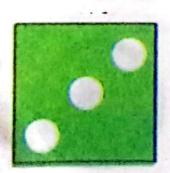
Square



I am a square.
I have four straight sides and four vertices.
All my sides are equal.



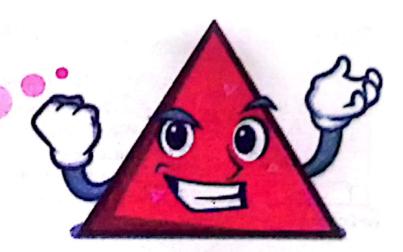


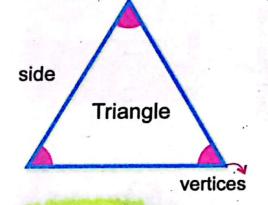


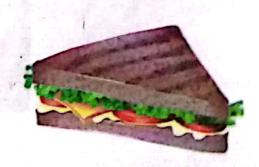


Triangle

I am a triangle. I have three straight sides and three vertices. My sides may or may not be equal







Circle

centre

I am a circle.
The distance of all
my points from the
centre is equal.





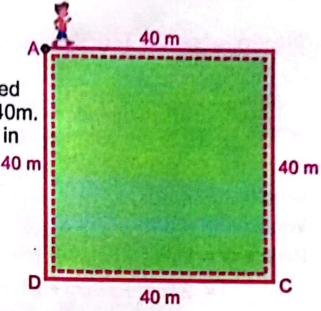




Perimeter of Square

Furqan runs around a square shaped ground with the length of a side is 40m. How much distance Furqan covers in one round?

To find the total distance he covers in one round, we will add lengths of all sides



= 160 m

The sum of all lengths of a closed figure is called perimeter.

Perimeter of a square = sum of all sides.



It the length of a side of a square is 5 cm. Find its perimeter.

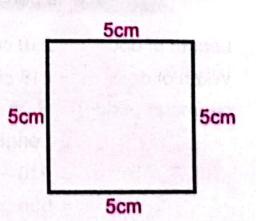
Length of a side = 5 cm

Perimeter of square = 4 × length of a side

 $= 4 \times 5 \text{ cm}$

= 20 cm

The perimeter of a square = 20 cm



Perimeter of Rectangle



Find the perimeter of the book with length of 27 cm and width of 21 cm

Length = 27cm

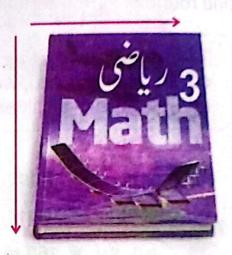
Width = 21cm

Perimeter = length + length + width + width

= 27 cm + 27 cm + 21 cm + 21 cm

 $= 54 \, \text{cm} + 42 \, \text{cm}$

= 96 cm





Key fact

Perimeter of a closed figure = Sum of lengths of all sides.

Perimeter of a rectangle = Sum of all sides



A door with a length of 210 cm and width of 118 cm. Find its perimeter.

Length of door = 210 cm

Width of door = 118 cm

perimeter of door = Sum of all sides

= Length + Length + Width + Witdth

= 210 + 210 + 118 + 118

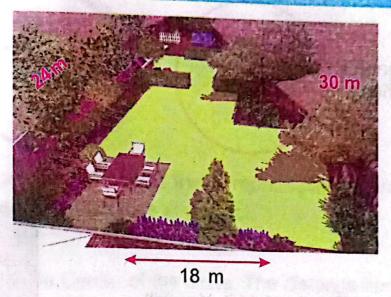
= 656 cm



Perimeter of Triangle



I have a triangular shaped garden in my home with lengths of 18 m, 30 m and 24 m. Find Perimeter of the garden



Perimeter of triangle = Sum of all three sides = 18 m + 24 m + 30 r





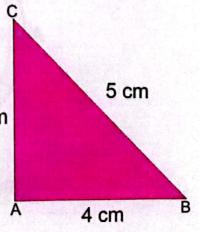
Find the perimeter of a triangle whose length of sides are AB=4 cm, BC=5 cm and AC=3 cm

Perimeter of triangle = Sum of all three sides

$$= 4 cm + 5 cm + 3 cm$$

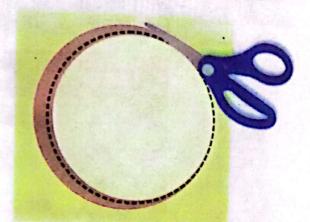
= 12 cm

3 cm

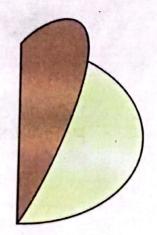


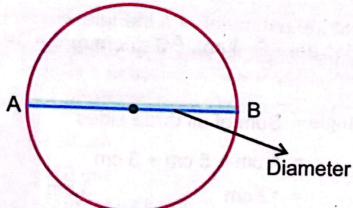
Identify center, radius and diameter of a circle

(i) Cut this page in circular shape.

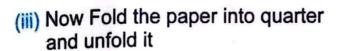


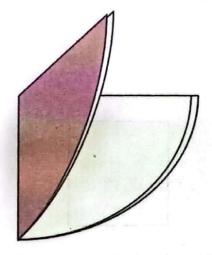
(ii) Fold it into half and unfold it. You will get a crease that is represented by line segment AB.





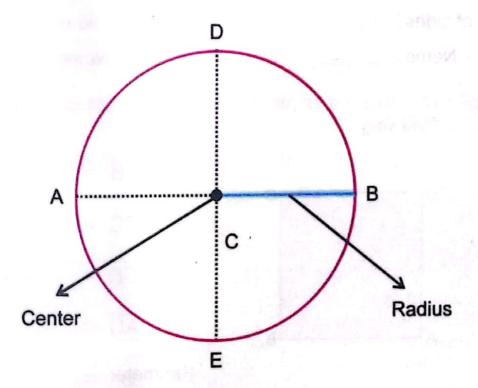
The line segment AB is called the diameter of the circle.





(iv) You will get another crease that is represented by line segment DE. The line segment DE cuts at point C.

The point C is the Center of the circle. The distance from center C to point A or B or D or E is called the Radius.

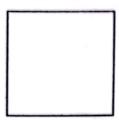


Exercise 2

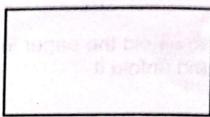


Write the name of following figures and their number of sides.

		٠.	
	2	•	
	8	٠,	
	п	-	

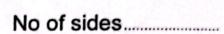


ii)



No of sides.....

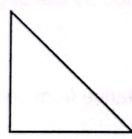
Name.....



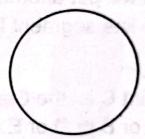
Name.....







iv



No of sides.....

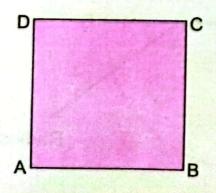
Name.....

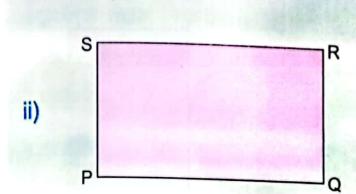
No of sides.....

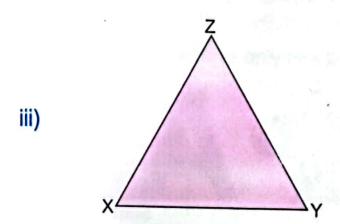
Name.....

Measure the length of sides and find the perimeter of the following:

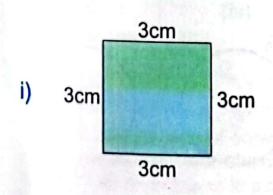


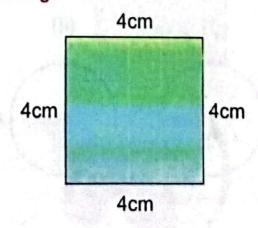




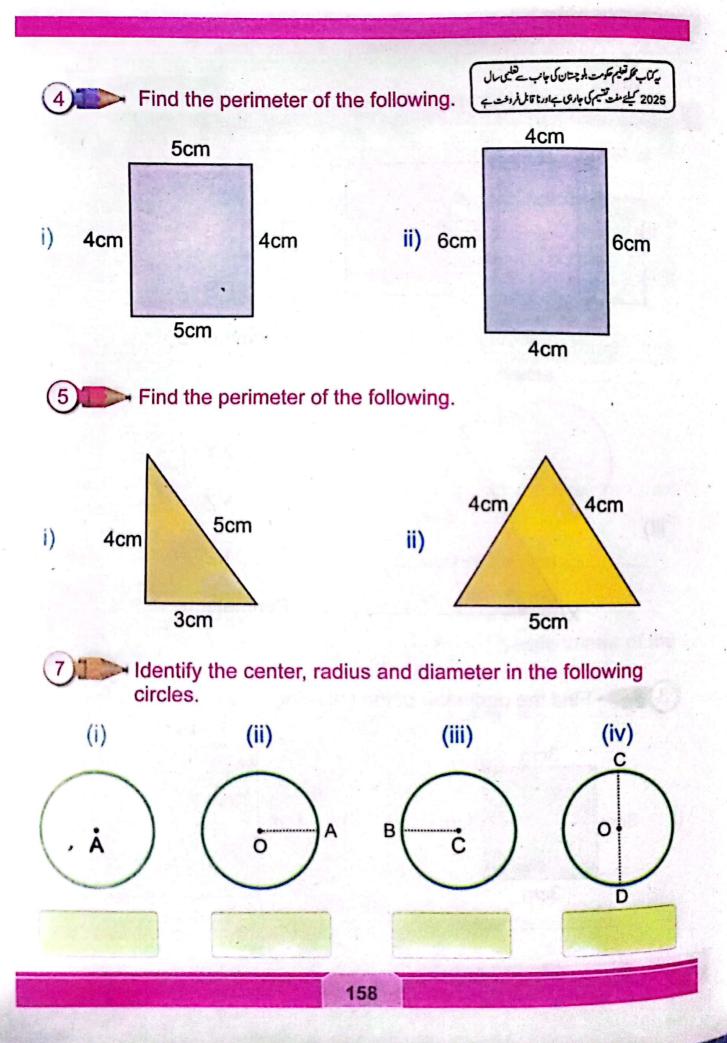


3 Find the perimeter of the following.





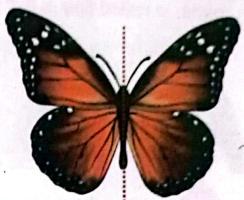
ii)



Reflective Symmetry



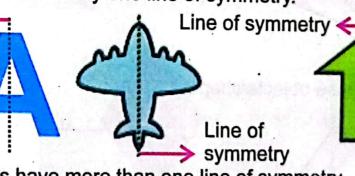




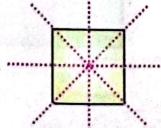
Many things around us are symmetrical. Things in nature - animals, plants and buildings - have symmetrical shapes. Look at the objects given below. There are symmetrical shapes because one part of the figure to the left of the line when folded, exactly covers the right part of the figure. This line is called symmetry.

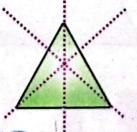
The following objects have only one line of symmetry.

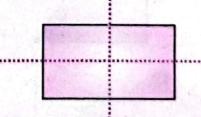
Line of symmetry <



The following objects have more than one line of symmetry.



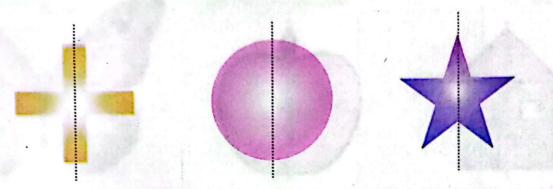




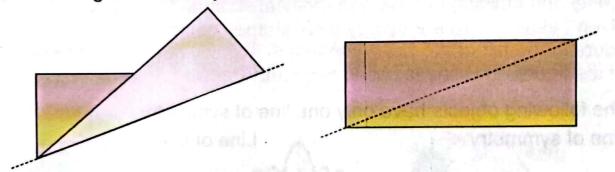
Put the mirror on the half side of object we can see complete object. It is an example of line of symmetry.



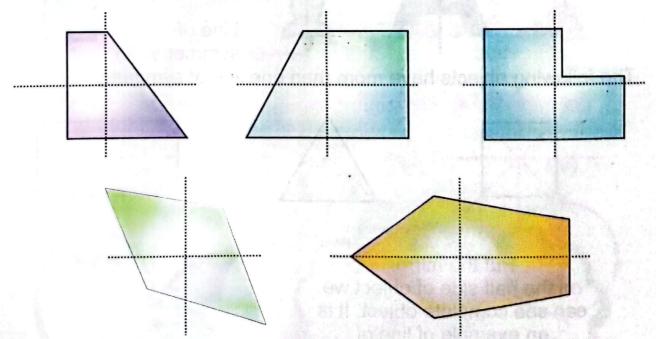
A line which divides a shape into two or more than two equal parts, is called line of symmetry.



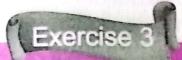
Fold rectangle in this way that the line is not a line of symmetry.



Look at these objects/shapes.

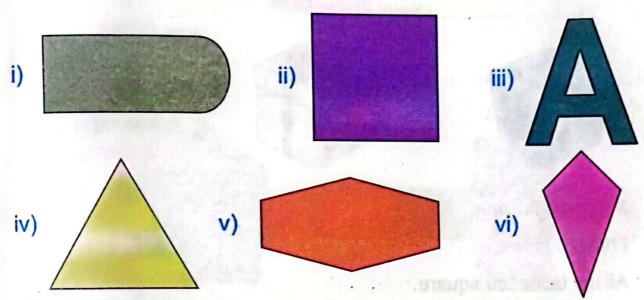


They have no line of symmetry. The shapes which have no line of symmetry are called non-symmetical shapes.

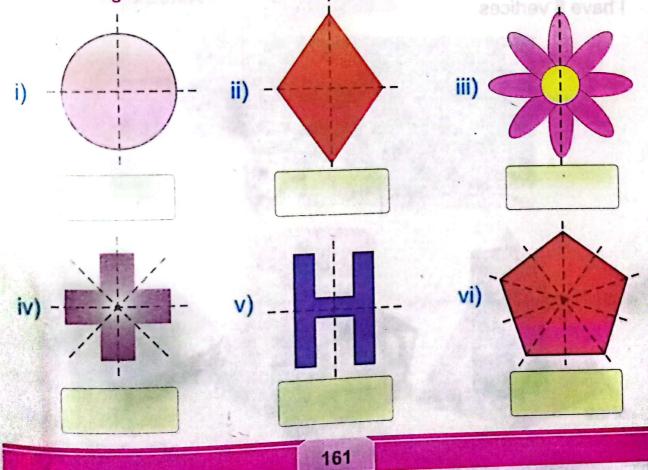




1 Draw the line of symmetry in following figures.



2 Count the numbers of line of symmetry in the following figures.



Three Dimensional Objects









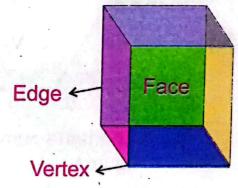
My name is cube.

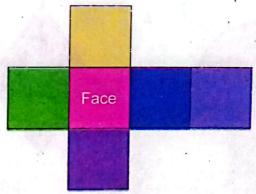
I have 6 faces.

All my faces are square.

I have 12 Edges with same length.

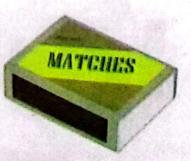
I have 8 vertices.











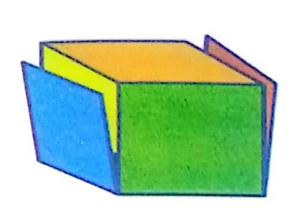
My name is cuboid.

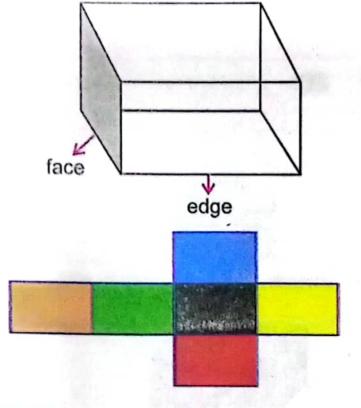
I have 6 faces.

All my faces are rectangles

I have 12 edges.

I have 8 vertices.





Pyramid

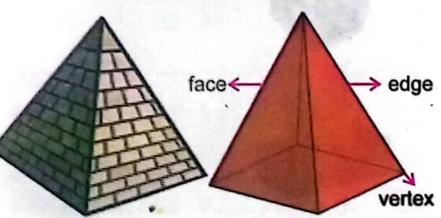


My name is pyramid.

I have 8 edges.

I have 5 faces.

I have 5 vertices.



163





Write the required information in the following.

Shape	Name	No. of faces	No. of edges	No. of vertices
		•	- " % ,	

164

I Have Learnt

- A point is used for location of any place or position.
- A closed figure with four sides and four vertices is called quadrilaterals.
- A closed figure with four sides and four vertices is called rectangle. The length of its opposite sides are equal and straight.
- A quadrilateral with equal length of four sides is called square.
- Sum of all lengths of a closed figure is called perimeter.
- A triangle has three sides and three vertices length of sides may or may not be equal.

Vocabulary

Line

Ray

Line Segment

Perimeter

Diameter

Reflective Symmetry

Cube

Cuboid





1

Chose the correct option.

- Number of sides in a quadrilateral are
 - (a) 1
- (b) 2
- (c) 3
- (d) 4

- ii) In a cube number of edges are
 - (a) 2
- (b) 6
- (c) 8
- (d) 12

- iii) A triangle has _____ vertices.
 - (a) 3
- (b) 2
- (c) 5
- (d) 4

iv)	A given figure	À I	s is	
	(a) Point	(b) line	(c) line segment	(d) Ray
v)	Á	B is		215003 m
	(a) line	(b) Ray	(c) line segment	(d) Point
2	Fill in the	blanks.		
i)	Line of symmetry	y divides any sha	pe into	equal parts.
ii)	Line segment ha	s end	points	
iii)	A square shape	has sid	des and	vertices
iv)	The sum of all si	des of any closed	I shape is equal to	
v) F	Perimeter of recta	angle can =		•
3)	Draw the li	ne segments acc	ording to given m	neasurement
			m (iii) \overline{AB} =	
4)1	Ahmed wa metres. Ho	lks a square sha w much distance	ped ground with le he cover in one	ength 249 round?
5	Classroom Perimeter .	door is 210 cm le	ong and 120 cm v	vide. Find its
	Find the Pe 15 m, 25 m		gular field with le	ngths of

Unit 7

Data Handling

Learning Objects:

After studying this unit, students will be able to:

- · Representation of data by
 - Carroll diagram
 - Tally chart
- · Read and interpret a Carroll diagram and Tally chart
- Read and interpret Picture Graph



How can show the number of birds by a diagram?

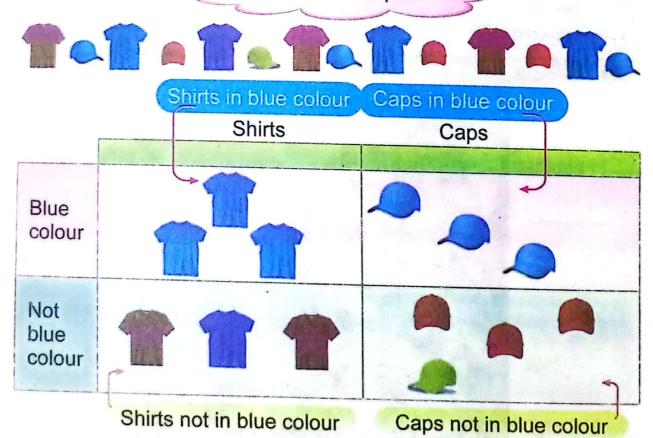
167

Carroll Diagram



I want to sort out different things with help of Carroll diagram. What should 1 do for this?

You can sort according to the colour and shapes



Carroll diagram is a diagram in which different things are sorted according to two characteristics. Figures, numbers and different things can be sorted out using Carroll diagram.

In above Carroll diagram, we can observe that:

- three shirts are in blue colour
 three shirts are not in blue colour
- three caps are in blue colour
 four caps are not in blue colour

Sort out the given numbers by Carroll diagram

3, 8, 10, 12, 16, 18, 21, 25, 28, 33



On the basis of which two characteristics, can we sort these numbers?



We can use the size of the number for sorting. less than 15 and greater than 15. Similarly, the numbers divisible by 4 and not divisible by 4

		bers less than 15 and ble by 4	Numbers greater than 15 and divisible by 4		
	Nur	nbers less than 15	Numbers greater than 15		
Numbers divisible by 4		8, 12	16, 28		
Numbers not divisible by 4		3, 10	18, 21, 25, 33		
		ers less than 15 and not ole by 4	Numbers greater than 15 and not divisible by 4		

In the Carroll diagram, we can observe that:

- Numbers less than 15 and divisible by multiplication table of 4 are 8, 12.
- Numbers greater than 15 and divisible by multiplication table of 4 are 16, 28
- Numbers less than 15 and not divisible by multiplication table of 4 are 3, 10
- Numbers greater than 15 and not divisible by multiplication table 4 are 18, 21, 25 33

Tally Chart



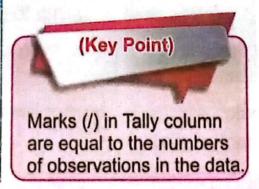
In a Maths test, the marks obtained by

34 students in a primary class are

8	8	6	4	9	6	9	8	7	8
8	8 4 9 4	6	8	9	6	7	7	8	8
6	9	8	8	` 7	4	9	9	9.	_6
7	4	4	4					5	

let's prepare a Tally Chart using given data.

Marks Obtained	Tally Marks	Number of Students
8	###///	
6	11111	
7	###//	
9	11111111	
4	////	





Answer the following questions by interpreting the Carroll diagram.

	Ever	n Num	bers	C	dd N	lumbei	s -
Numbers divisible by 5	10,	20,	30	5	, 1	5, 2	.5
Numbers not divisible by 5	4,	8,	14	3,	9,	19,	21

- i) What is the smallest even number which is divisible by 5?

10

- ii) What are the odd numbers which are divisible by 5?iii) What is the smallest even numbers which is not
- divisible by 5?

 iv) What is the greatest odd numbers which is not divisible by 5?



Using Tally Chart, answer the questions given below.

Animals	Tally marks
Monkey	###//
Lion	###/
Bear	////
Zebra	###/
Elephant	//

- i) Which animal is least in numbers?
- ii) Which animal is greatest in number?
- iii) Which of the two animals are equal in number?
- iv) What is the total number of monkey and lion?
- v) What is the total number of animals?



Elephant





1) Show the following fruits and vegetables by Carroll diagram



2 Complete the Carroll diagram using the given numbers 10, 18, 22, 25, 29, 30, 35, 37, 45, 43, 48, 52

	Even numbers	Odd numbers
Numbers divisible by 5		
Numbers not divisible by 5		

Observe the Carroll diagram and answer the questions given below.

	Numbers less than 25	Numbers greater than 25
Numbers divisible by 7	7, 14, 21	28, 35, 42
Numbers not divisible by 7	5, 9, 15, 19	27, 29, 38, 43

- i) Find the numbers greater than 25 and divisible by 7
- Find the numbers greater than 25 and not divisible by 7
- iii) Find the numbers less than 25 and divisible by 7
- iv) Find the numbers less than 25 and not divisible by 7
- A dice is rolled 20 times and the following numbers are obtained.

1, 3, 5, 6, 3, 2, 4, 5, 3, 2, 4,6, 3, 4, 3, 4,2, 5, 1, 6 Using above numbers, prepare a Tally Chart

In a school, following number of students celebrate their birthday in different months.

Answer the question given below in the table.

Month	Tally marks
January	///
February	++++ 1
March	+++++++
April	++++
May	1111

- i) In which month least number of students celebrate the birthday?
- ii) In which month greatest number of students celebrate the birthday?
- iii) In January and April, how many students celebrate their birthday?
- iv) How many total number of students celebrate their birthday in 5 months?

Picture Graph



I want to arrange pencils according to their colours.

Find the numbers less than 25

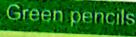


We can arrange these pencils using picture graph



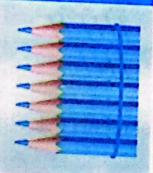
Yellow pencils

Blue pencils



Red pencils







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Tysbrind

In this picture graph:

- There are 4 yellow pencils. i)
- There are 7 blue pencils.
- There are 7 green pencils.
- iv) There are 5 red pencils.

Given in the following picture graph, favourite sports of students are shown.

1 picture = 2 students

Hockey

Football



Cricket



Tenis



Table Tenis





Observe the above picture graph and answer the following questions

i) What is the number of students playing hockey?



ii) What is the number of students playing cricket?



iii) Which is the most favourite sport?



iv) Which is the least favourite soprt?



v) What is the number of students playing tenis?

Exercise 2





Following picture graph, the number of students were absent during a week.

1 picture = 1 student

Monday Tuesday Wednesday Thursday Friday Observe the above graph and answer the following questions How many students were absent on Monday? ii) How many students were absent on Tuesday?

176

iii) On what day most number of the students were absent?

iv) On what day, least number of students were absent?

v) What is the total number of students absent on

Wednesday and Thursday?

The following picture graph shows the production of cars in different years. 1 picture = 100 cars Number of cars Year 2008 2009 2010 2011 2012 Observe the graph and answer the following questions. i) How many cars were manufactured in 2008? How many cars were manufactured in 2010? In which year, most number of cars were manufactured?

In which year, least number of cars were manufactured? v) In which two years, equal number of cars were manufactured?

I Have Learnt

- In Carroll diagram, different things are sorted out due to its two characteristics.
- Figures, numbers and different things are sorted out in Carroll diagram.
- In Tally chart data is collected and organized by tally marks.

Vocabulary

Carroll Diagram Tally Chart Picture Graph Characteristics

In picture graph, different things are shown in different boxes.

Review Exeercise





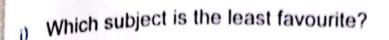
Prepare Carroll diagram from the given data.

12, 15, 16, 18, 17, 19, 21, 23, 28, 30, 32, 37, 39

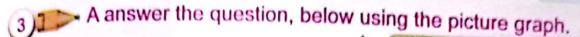
1.086	Even numbers	Odd numbers
Numbers less than 20		
Numbers greater than 20		

The following Tally chart shows the favourite subject of students in a school. Answer the following question.

Subjects	Tally marks
Urdu	### 11
Science	++++ 111
English	+++++++
Mathematics	HH1
General Knowledge	THE STATE OF THE S



- Which subject is the most favourite?
- iii) How much students like Science?
- iv) How much students like Urdu?
- v) How many students like Mathematics?



1 picture = 2 animals

Deer



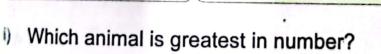
Elephant



Monkey



Cheetah



- Which animal is least in number?
- What is the total number of elephants and monkeys?
- What is the total number of all animals?



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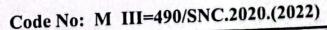
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- رشوت لينے اور دينے والا دونوں جہنی ہیں۔
- بدعنوانی اخلاقی دیوالیہ پن کوجنم دیتی ہے۔
- بدعنوانی ملی ترتی کی راه مین سب سے بدی رکاوٹ ہے۔
- قوى اختساب بيورد بلوچىتان
- بدعنوانی سے خور بھی بچیں اور دوسروں کو بھی روکیں۔



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