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NEW ERA PUBLIC SCHOOL 2022
SUBJECT:- MATHEMATICS 'A' CLASS:- 4th
TOPIC :- ADDITION
EXERCISE :- 2.4

SOLVED ASSIGNMENT OF UNIT II 2022

Qno.1:- Complete The table.

Sol:-	S.NO.	Sum	Rounding numbers	Estimated sum	Actual sum
	a,	$4863 + 2789$	$5000 + 3000$	8,000	7,652
	b,	$7456 + 6532$	$7000 + 7000$	14,000	13,988
	c,	$8562 + 7963$	$9000 + 8000$	17,000	16,525
	d,	$2314 + 4123$	$2000 + 4000$	6,000	6,437
	e,	$19632 + 26589$	$20000 + 27000$	47,000	46,221
	f,	$47852 + 24786$	$48000 + 25000$	73,000	72,638
	g,	$16895 + 38562$	$17000 + 39000$	56,000	55,457
	h,	$58632 + 62358$	$59000 + 62000$	121,000	120,990

Qno.2:- A petrol pump sold 3,730 litres in day 1, 2,531 litres of petrol in day 2, and 5,368 litres in day 3. Estimate the total number of litres of petrol the pump sold in 3 days.

Sol:- A petrol pump sold petrol in 1st day = 3,730 l.
Petrol sold in 2nd day = 2,531 litres.
Petrol sold in 3rd day = 5,368 l.

∴ Total petrol sold in 3 days = 3,730 l.
+ 2,531 l.
+ 5,368 l.
11,629 l.

Chapter 3 Exercise 3.1

Topic:- Subtraction

Qno. 1:- Subtract each of the following.

a, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 76286 \end{array}$ b, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 96772 \end{array}$ c, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 85679 \end{array}$

$$\begin{array}{r} 76286 \\ - 46041 \\ \hline \end{array}$$

$$\begin{array}{r} 96772 \\ - 54340 \\ \hline \end{array}$$

$$\begin{array}{r} 85679 \\ - 53410 \\ \hline \end{array}$$

$$\begin{array}{r} 30245 \\ \hline \end{array}$$

$$\begin{array}{r} 42432 \\ \hline \end{array}$$

$$\begin{array}{r} 32269 \\ \hline \end{array}$$

Qno. 2:- Find the difference.

a, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 64321 \end{array}$

b, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 498326 \end{array}$

c, $\begin{array}{r} \text{L} \quad \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 956432 \end{array}$

$$\begin{array}{r} 64321 \\ - 52364 \\ \hline \end{array}$$

$$\begin{array}{r} 498326 \\ - 59487 \\ \hline \end{array}$$

$$\begin{array}{r} 956432 \\ - 467374 \\ \hline \end{array}$$

$$\begin{array}{r} 11957 \\ \hline \end{array}$$

$$\begin{array}{r} 438839 \\ \hline \end{array}$$

$$\begin{array}{r} 489058 \\ \hline \end{array}$$

Qno. 3:- Arrange in columns and subtract the following.

a, $96,547 - 23,214$

b, $85,693 - 52,470$

Sol:- $\begin{array}{r} 96,547 \\ - 23,214 \\ \hline \end{array}$

Sol:- $\begin{array}{r} 85,693 \\ - 52,470 \\ \hline \end{array}$

$$\begin{array}{r} 73,333 \\ \hline \end{array}$$

$$\begin{array}{r} 33,223 \\ \hline \end{array}$$

c, $6,32,581 - 4,10,260$

d, $88,745 - 63,254$

Sol:- $\begin{array}{r} 6,32,581 \\ - 4,10,260 \\ \hline \end{array}$

Sol:- $\begin{array}{r} 88,745 \\ - 63,254 \\ \hline \end{array}$

$$\begin{array}{r} 2,22,321 \\ \hline \end{array}$$

$$\begin{array}{r} 25,491 \\ \hline \end{array}$$

Qno. 4:- In each of the following, write the bigger number on top and subtract the smaller number from it. (a) 2,85,679; 1,03,864

Sol:- $\begin{array}{r} 2,85,679 \\ - 1,03,864 \\ \hline \end{array}$

$$\begin{array}{r} 1,73,815 \\ \hline \end{array}$$

b, 6,53,891; 8,06,000 c, 9,87,000; 3,94,819

sol:- 8,06,000

- 6,53,891

1,52,109

sol:- 9,87,000

- 3,94,819

5,82,181

Qno.5:- Find the difference between 1,23,698 and 1,02,026

sol:- 1,23,698

- 1,02,026

21,672

Qno.6:- Find The difference if minuend = 96,325 and subtrahend = 45,201.

sol:- 96,325 ← Minuend

- 45,201 ← subtrahend

51,124

Qno.7:- What number is 2,879 less than 12,000

sol:- 12,000

- 2,879

9,121

Qno.8:- Subtract The sum of 35,879 and 29,874 from 9,99,999.

sol:- 9,99,999 - (35,879 + 29,874).

= 9,99,999 - 65,753 = 9,34,246

Qno.9:- a, Subtract forty-eight thousand eight hundred twelve from one lakh four thousand six hundred eighty-one.

sol:- 1,04,681

- 48,812

55,869

(4)

b. Subtract six lakh Two thousand four hundred two from eight lakh Twelve thousand nine hundred sixteen.

sol:-

$$\begin{array}{r} 8,12,916 \\ - 6,02,402 \\ \hline 2,10,514 \end{array}$$

Exercise 3-2

Qno.1:- Fill in The blanks.

a, $45,693 - 0 = 45,693$ b, $23,658 - 10 = 23,648$

c, $78,963 - 1 = 78,962$ d, $36,589 - 100 = 36,489$

e, $56,988 - 1 = 56,987$ f, $23,698 - 0 = 23,698$

g, $86,325 - 1000 = 85,325$ h, $56224 - 56224 = 0$

Qno.2:- For each of the following addition facts, write two subtraction facts.

a, $53,245 + 31,001 = 84,246$ b, $21,685 + 61,125 = 82,810$

sol:- $84,246 - 53,245 = 31,001$; sol:- $82,810 - 21,685 = 61,125$;

and $84,246 - 31,001 = 53,245$. and $82,810 - 61,125 = 21,685$.

c, $23,265 + 41,218 = 64,483$. d, $31,151 + 52,916 = 84,067$.

sol:- $64,483 - 23,265 = 41,218$; sol:- $84,067 - 31,151 = 52,916$;

and $64,483 - 41,218 = 23,265$ and $84,067 - 52,916 = 31,151$.

e, $2,98,605 + 5,01,131 = 7,99,736$.

sol:- $7,99,736 - 2,98,605 = 5,01,131$;

and $7,99,736 - 5,01,131 = 2,98,605$.

Exercise 3-3

Qno.1:- Solve each of the following.

a, $75,698 + 23,698 - 63,258$.

sol:- $(75,698 + 23,698) - 63,258$.

$= 99,396 - 63,258 = 36,138$

(P.T.O)

b, $85,692 + 23,569 - 10,245$

sol:- $(85,692 + 23,569) - 10,245$
 $= 1,09,261 - 10,245 = 99,016$

c, $96,325 + 10,101 - 65,478$

sol:- $(96,325 + 10,101) - 65,478$
 $= 1,06,426 - 65,478 = 40,948$

d, $8,02,548 - 1,03,651 - 5,69,874$

sol:- $8,02,548 - (1,03,651 - 5,69,874)$
 $= 8,02,548 - 6,73,525 = 1,29,023$

e, $8,56,974 + 1,45,698 - 3,65,478$

sol:- $(8,56,974 + 1,45,698) - 3,65,478$
 $= 10,02,672 - 3,65,478 = 6,37,194$

Qno.2:- Subtract each of the following and check the answer by suitable addition.

sol a:- T^h T^h H T O

$$\begin{array}{r} 86841 \\ - 53074 \\ \hline 33767 \end{array}$$

b, T^h T^h H T O

$$\begin{array}{r} 67206 \\ - 54892 \\ \hline 12314 \end{array}$$

check:- T^h T^h H T O

Difference $\rightarrow 33767$

Subtrahend $+ 53074$

Minuend $\rightarrow 86841$

check:- T^h T^h H T O

Difference 12314

Subtrahend $+ 54892$

Minuend 67206

c, T^h T^h H T O

$$\begin{array}{r} 89000 \\ - 78831 \\ \hline 10169 \end{array}$$

check:- T^h T^h H T O

Difference 10169

subtrahend $+ 78831$

Minuend 89000

Qno.3:- Subtract The following and check your answer.
 (P.T.O.)

a, 36,987 from 50,000 b, 56,321 from 98,023.

sol:- 50,000

- 36,987

13,013

check:-

13,013

+ 36,987

50,000

sol:- 98,023

- 56,321

41,702

check:-

41,702

+ 56,321

98,023

c, 4,23,547 from 6,98,742.

sol:- 6,98,742

- 4,23,547

2,75,195

check:-

2,75,195

+ 4,23,547

6,98,742

Exercise 3-4

Qno.1:- Solve The following word problems. Use the required information only.

a, In a train with 28 bogies, 2,740 people were travelling. Out of these 1,560 were men. How many women were there in the train?

sol:- Number of people in a train = 2,740.

Number of men = 1,560.

∴ Number of women = 2,740

- 1,560

1,180

b, The population of village A is 26,820. Village B, which is 125 km away, has a population of 37,648. How many more people are there in village B?

sol:- Population of village A = 26,820.

Population of village B = 37,648.

$\therefore$ The number of more people in village B = 37,648

$- 26,820$

10828

c, A Photo album can hold 1,600 photos. Meera keeps 623 photos in the album. and her sister keeps 529 photos.

How many more photos can be put in the album?

Sol:- Number of photos an album hold = 1,600

Meera and her sister keeps photos in the album = 623

$+ 529$

1,152

$\therefore$ Number of more photos put in the album = 1,600

$- 1,152$

448

d, At a school library there are 3,650 books in maths and 1,110 books in Hindi. How many books are there in Hindi less than in maths at the library?

Sol:- Number of math books in a library = 3,650

Number of Hindi books = 1,110

$\therefore$ Number of Hindi books less than maths = 3,650

$- 1,110$

2,540

e, In a barrel with capacity of 4,500 bottles of oil, 2,860 bottles are kept. Out of these 1,925 bottles of oil are removed. How many bottles of oil are left in the barrel now?

Sol:- Number of oil bottles in a ^{barrel} = 2,860

Out of these, number of oil removed bottles = 1,925

$$\begin{array}{r} \therefore \text{Number of bottles of oil left in the barrel} = 2860 \\ - 1925 \\ \hline 935 \end{array}$$

Qno:2:- Solve each of the following.

a, By how much is 6,325 smaller than 9,988?

sol:- $9,988$

$$- 6,325$$

$$\hline 3,663$$

b, what should be subtracted from 5,869 to get 2,312?

sol:- $5,869$

$$- 2,312$$

$$\hline 3,557$$

c, what should be added to 5,621 to make it 9,999?

sol:- $9,999$

$$- 5,621$$

$$\hline 4,378$$

d, How much greater is 8,602 than 5,236?

sol:- $8,602$

$$- 5,236$$

$$\hline 3,366$$

e, The sum of two numbers is 88,765. If one of them is 43,632, find the other one.

sol:- The sum of two numbers = 88,765.

One number = 43,632.

$\therefore$ other number = 88,765

$$- 43,632$$

$$\hline 45,133$$

6. Find a number which is 3,311 smaller than the number 8,632.

Sol:-

$$\begin{array}{r} 8,632 \\ - 3,311 \\ \hline 5,321 \end{array}$$

Exercise 3-6

Q:- Estimate the difference by rounding each number to the nearest thousands and find the actual difference for each of the following. Complete the table.

S.No	Sum	Rounding Numbers	Estimated difference	Actual difference	Is The estimation close?
1.	5,623 - 2,365	6,000 - 2,000	4,000	3,258	No
2.	25,896 - 12,036	26,000 - 12,000	14,000	13,860	Yes
3.	99,936 - 45,369	1,00,000 - 45,000	55,000	54,567	Yes
4.	9,090 - 1,010	9,000 - 1,000	8,000	8,080	Yes
5.	6,987 - 5,698	7,000 - 6,000	1,000	1,289	Yes

Chapter 4

Exercise 4.1

Topic:- Multiplication

Qno.1:- Find the products.

a,	TH T O	b, TH T O	c, TH T O	d, TH T O
$\begin{array}{r} 3835 \\ \times 7 \\ \hline 26,845 \end{array}$	$\begin{array}{r} 5970 \\ \times 4 \\ \hline 23,880 \end{array}$	$\begin{array}{r} 8962 \\ \times 5 \\ \hline 44,810 \end{array}$	$\begin{array}{r} 18512 \\ \times 4 \\ \hline 74,048 \end{array}$	

Qno.2:- Arrange in columns and find the products.

a, $\begin{array}{r} 7642 \\ \times 9 \\ \hline 68,778 \end{array}$	b, $\begin{array}{r} 2975 \\ \times 8 \\ \hline 23,800 \end{array}$	c, $\begin{array}{r} 4759 \\ \times 4 \\ \hline 19,036 \end{array}$	d, $\begin{array}{r} 6277 \\ \times 5 \\ \hline 31,385 \end{array}$
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Exercise 4.2

Qno.1:- Find the products.

a, $782 \times 10 = 7,820$ b, $321 \times 100 = 32,100$ c, $325 \times 100 = 32,500$
d, $3,645 \times 10 = 36,450$ e, $3,423 \times 1,000 = 3,423,000$ f, $8794 \times 1,000 = 8,794,000$

Qno.2:- Group The numbers and find the products.

a, $40 \times 5 \times 2$

b, $56 \times 2 \times 50$

sol:- $40 \times (5 \times 2)$
 $= 40 \times 10 = 400$

sol:- $56 \times (2 \times 50)$
 $= 56 \times 100 = 5,600$

c, $55 \times 10 \times 10$

d, $68 \times 25 \times 4$

sol:- $55 \times (10 \times 10)$
 $= 55 \times 100 = 5,500$

sol:- $68 \times (25 \times 4)$
 $= 68 \times 100 = 6,800$

Qno.3:- Find The products. Remember That The position of multiplicand and multiplier can be changed.

a, 58×369

b, 78×215

sol:- 369×58
2952

sol:- 215×78
1720

1845x

1505x

21,402

16,770

c, 47×698

d, 34×201

sol:- 698×47
4886

sol:- 201×34
804

2,792x

603x

32,806

6,834

Qno.4:- Find The products. Work horizontally.

a, $442 \times 20 = 8,840$ b, $147 \times 30 = 4,410$

c, $582 \times 800 = 4,656$ d, $852 \times 6 = 5,112$

Qno.5:- Expand The multiplicands and find The products.
(P.T.O.)

a, 276×7

sol:- 276×7

$$= (200 + 70 + 6) \times 7$$

$$= (200 \times 7) + (70 \times 7) + (6 \times 7)$$

$$= 1400 + 490 + 42$$

$$= 1932$$

c, 3285×5

sol:- 3285×5

$$= (3000 + 200 + 80 + 5) \times 5$$

$$= (3000 \times 5) + (200 \times 5) + (80 \times 5) + (5 \times 5)$$

$$= 15000 + 1000 + 400 + 25$$

$$= 16425$$

b, 694×8

sol:- 694×8

$$= (600 + 90 + 4) \times 8$$

$$= (600 \times 8) + (90 \times 8) + (4 \times 8)$$

$$= 4800 + 720 + 32$$

$$= 5552$$

d, 852×6

sol:- 852×6

$$= (800 + 50 + 2) \times 6$$

$$= (800 \times 6) + (50 \times 6) + (2 \times 6)$$

$$= 4800 + 300 + 12$$

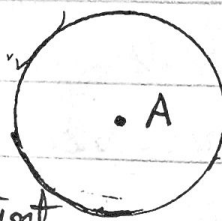
$$= 5112$$

Mathematics 'B'

Topic:- Circle

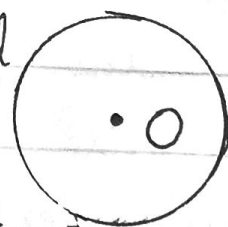
Definitions:-

Circle:- The circle is a curved shape with all its points lying at the same distance from a fixed point called the centre. A is the centre of the circle.

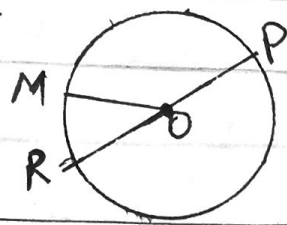


Parts of the circle.

Centre:- The point at which the metal arm of the compass is placed marked as O. O is the centre of the circle. We call a circle by the name of its centre.



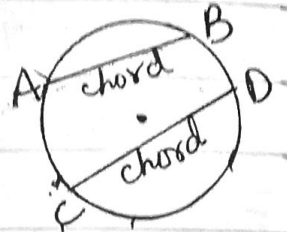
Radius:- If we join any point on the circle to the centre of the circle, we get a line segment. This is (P.T.O.)



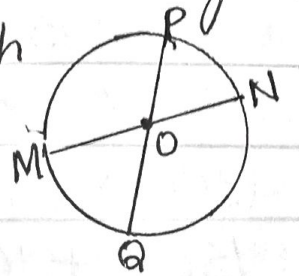
called a radius of the circle. OP , OM and OR are the radii of the circle O .

Chord:- If any two points on a circle are joined, we get a line segment.

This is called a chord of the circle. AB and CD are the chords of the circle O . A circle has many chords. Chords can have different lengths.

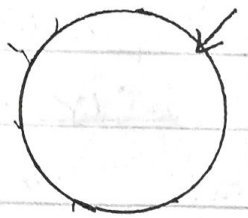


Diameter:- A chord of a circle which passes through its centre is called a diameter. MN and PQ are diameters of circle O .



A circle has many diameters. All diameters have the same length. So the length of MN = length of PQ .

Circumference:- The length of the boundary of a circle is called the circumference of the circle.



Exercise 8.7

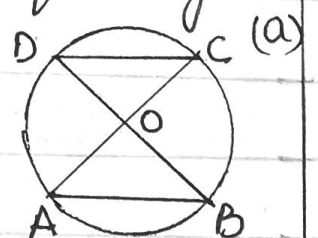
Qno-2:- In the figures given below, name the following.

Sol a, The centre O

A radius OA

A chord AB

A diameter AC

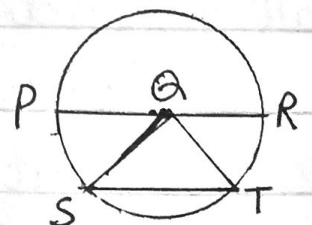


Sol b, The centre Q

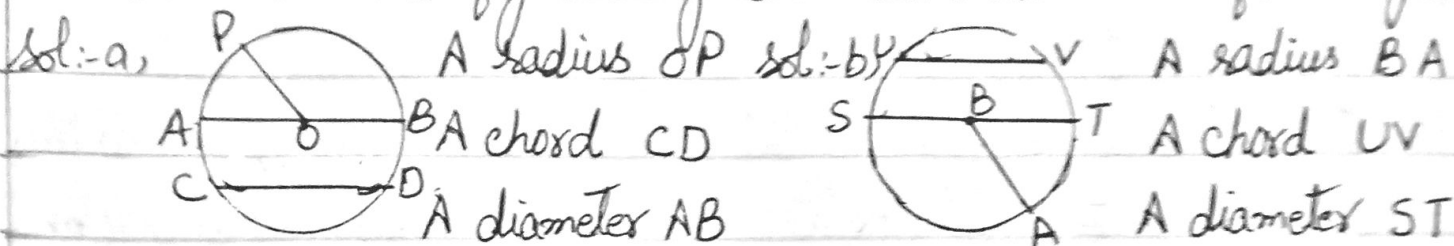
A radius SA

A chord ST

A diameter PR



Qno. 3:- In the figures given below, draw the following.



Qno. 4:- Fill in the blanks.

a, A circle has only one centre.

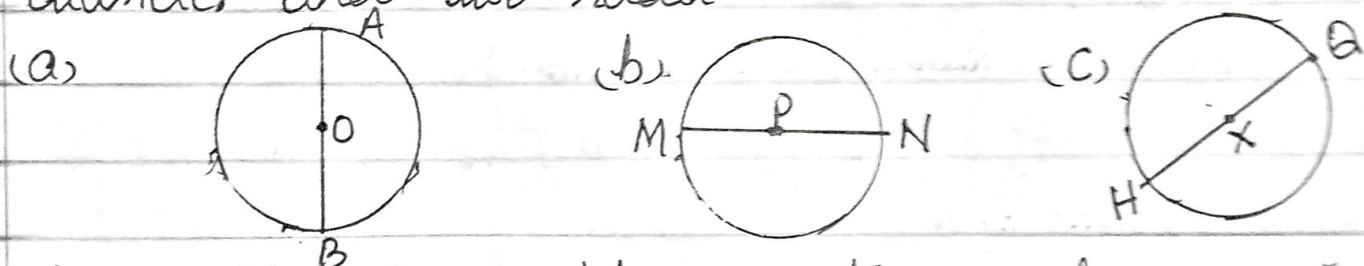
b, A circle can have many radii, chords, diameters.

Qno. 5:- Define the circumference of a circle.

Sol:- It is mentioned above.

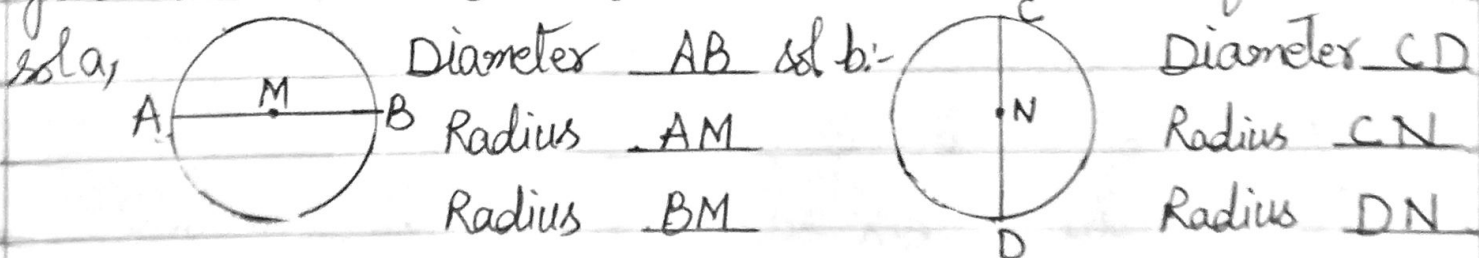
Exercise 8.8

Qno. 1:- For each of the following figures, name the diameter and two radii.



Sol, a, Diameter AB sol, b:- Diameter MN sol, c:- Diameter HQ
Radius OA Radius MP Radius HX
Radius OB Radius NP Radius QX

Qno. 2:- In the figures given below, draw a diameter and give it a name. Also name the two radii formed.



Qno. 3:- The radii of circles are given. Find the corresponding diameter in each case.

a, 3cm

b, 15cm

Sol:- Diameter = $2 \times$ radius. sol:- Diameter = $2 \times$ radius.
(P.T.O.)

$$= 2 \times 3\text{cm} = 6\text{cm}.$$

$$= 2 \times 15\text{cm} = 30\text{cm}.$$

c, 32cm.

d, 150cm.

Sol:- Diameter = $2 \times$ radius.

Sol:- Diameter = $2 \times$ radius.

$$= 2 \times 32\text{cm} = 64\text{cm}.$$

$$= 2 \times 150\text{cm} = 300\text{cm}.$$

Qno.4:- The diameters of circles are given. Find the corresponding radius in each case.

a, 20cm.

b, 16cm.

Sol:- Radius = Diameter $\div 2$.

Sol:- Radius = Diameter $\div 2$.

$$= 20\text{cm} \div 2 = 10\text{cm}.$$

$$= 16\text{cm} \div 2 = 8\text{cm}.$$

c, 11cm.

d, 14cm.

Sol:- Radius = Diameter $\div 2$.

Sol:- Radius = Diameter $\div 2$.

$$= 11\text{cm} \div 2 = 5.5\text{cm}.$$

$$= 14\text{cm} \div 2 = 7\text{cm}.$$

Qno.5:- Solve The following word problems.

a, The diameter of a dish is 100cm. Find its radius.

Sol:- The diameter of a dish = 100cm.

$\therefore$ Its radius = Diameter $\div 2 = \frac{100}{2}\text{cm}.$

$$2 \overline{) 100} 50$$

$$2$$

$$\underline{10}$$

$$0$$

$$50\text{cm}.$$

b, If the radius of a circular garden is 48cm, then what will be its diameter?

Sol:- Radius of a circular garden = 48cm.

$\therefore$ Its diameter = $2 \times$ radius

$$= 2 \times 48\text{cm} = 96\text{cm}.$$

Chapter 9.

Topic:- Metric Measures.

Exercise 9.1

Qno.1:- Convert the following into metres.

(P.T.O.)

a, 6 km

sol:- $1 \text{ km} = 1000 \text{ m}$.

$$\therefore 6 \text{ km} = 6 \times 1000 \text{ m} = 6000 \text{ m}$$

c, 12 km 308 m.

$$\text{sol:- } 12 \times 1000 \text{ m} + 308 \text{ m} \\ = 12,000 + 308 \text{ m} = 12,308$$

b, 3 km 652 m.

$$\text{sol:- } 3 \times 1,000 \text{ m} + 652 \text{ m}$$

$$= 3,000 \text{ m} + 652 \text{ m} = 3652 \text{ m}$$

d, 4 km 66 m.

$$\text{sol:- } 4 \times 1,000 \text{ m} + 66 \text{ m}$$

$$= 4,000 \text{ m} + 66 \text{ m} = 4,066 \text{ m}$$

Qno.2:- Convert the following into centimetres.

a, 14 m.

$$\text{sol:- } 1 \text{ m} = 100 \text{ cm}$$

$$= 14 \text{ m} = 14 \times 100 \text{ cm} = 1400 \text{ cm}$$

b, 7 m 38 cm.

$$\text{sol:- } 7 \text{ m } 38 \text{ cm} = 7 \times 100 \text{ cm} + 38 \text{ cm}$$

$$= 738 \text{ cm}$$

c, 9 m 78 cm.

d, 32 m 11 cm.

$$\text{sol:- } 9 \text{ m } 78 \text{ cm} = 9 \times 100 \text{ cm} + 78 \text{ cm} \\ = 978 \text{ cm}$$

$$\text{sol:- } 32 \text{ m } 11 \text{ cm} = 32 \times 100 \text{ cm} + 11 \text{ cm} \\ = 3211 \text{ cm}$$

Qno.3:- Convert the following into millimetres.

a, 7 cm 4 mm.

b, 14 cm 5 mm.

$$\text{sol:- } 1 \text{ cm} = 10 \text{ mm}$$

$$\text{sol:- } 14 \text{ cm } 5 \text{ mm} = 14 \times 10 \text{ mm} + 5 \text{ mm}$$

$$7 \text{ cm } 4 \text{ mm} = 7 \times 10 \text{ mm} + 4 \text{ mm}$$

$$= 70 \text{ mm} + 4 \text{ mm} = 74 \text{ mm} \quad = 140 \text{ mm} + 5 \text{ mm} = 145 \text{ mm}$$

c, 18 cm

d, 22 cm 8 mm.

$$\text{sol:- } 18 \text{ cm} = 18 \times 10 \text{ mm}$$

$$\text{sol:- } 22 \text{ cm } 8 \text{ mm} = 22 \times 10 \text{ mm} + 8 \text{ mm}$$

$$= 180 \text{ mm}$$

$$= 220 \text{ mm} + 8 \text{ mm} = 228 \text{ mm}$$

Qno.4:- Convert the following into centimetres and millimetres.

a, 70 mm.

b, 62 mm.

$$\text{sol:- } 10 \text{ mm} = 1 \text{ cm}$$

$$\text{sol:- } 10 \text{ mm} = 1 \text{ cm}$$

$$70 \text{ mm} = 70 \div 10 \text{ cm} = 7 \text{ cm}$$

$$= 62 \text{ mm} = 62 \div 10 = 6 \text{ cm } 2 \text{ mm}$$

c, 300 mm.

d, 128 mm.

$$\text{sol:- } 300 \text{ mm} = 300 \div 10 \text{ cm} = 30 \text{ cm}$$

$$\text{sol:- } 128 \text{ mm} = 128 \div 10 \text{ cm} = 12 \text{ cm } 8 \text{ mm}$$

Qno.5:- Convert the following into metres and centimetres.

a, 700 cm.

b, 963 cm.

Sol:- $100 \text{ cm} = 1 \text{ m}$.

Sol:- $963 \text{ cm} = 963 \div 100 \text{ m}$

$700 \text{ cm} = 700 \div 100 \text{ m} = 7 \text{ m}$.

$= 9 \text{ m } 63 \text{ cm}$.

c, 1236 cm.

d, 1866 cm.

Sol:- $1236 \text{ cm} = 1236 \div 100 \text{ m}$

Sol:- $1866 \text{ cm} = 1866 \div 100 \text{ m}$.

$= 12 \text{ m } 36 \text{ cm}$.

$= 18 \text{ m } 66 \text{ cm}$.

Qno.6:- Convert the following into kilometres and metres.

a, 8000 m.

b, 6970 m

Sol:- $1000 \text{ m} = 1 \text{ km}$.

Sol:- $6970 \text{ m} = 6970 \div 1000 \text{ km}$

$8000 \text{ m} = 8000 \div 1000 = 8 \text{ km}$.

$= 6 \text{ km } 970 \text{ m}$.

c, 10875 m.

d, 20495 m

Sol:- $10875 \text{ m} = 10875 \div 1000 \text{ km}$.

Sol:- $20495 \text{ m} = 20495 \div 1000 \text{ km}$

$= 10 \text{ km } 875 \text{ m}$.

$= 20 \text{ km } 495 \text{ m}$.

Exercise 9.2

Qno.1:- Find the sum.

Sol a:- km m cm

Sol. b:-

77 356 85

147 96 8

55 563 77

302 52 6

+ 6 099 06

+ 74 14 0

139 019 68

524 63 4

Qno.2:- Write in vertical form and find the sum of the following.

a, 564 km 156 m, 125 km 414 m, and 415 km 102 m.

km m

564 156

125 414

$$+ \begin{array}{r} 415 \\ 102 \end{array}$$

$$\underline{\begin{array}{r} 1104 \\ 672 \end{array}}$$

b, 66km 162m 32cm and 53km 806m 87cm.

Sol:- km m cm

$$\begin{array}{r} 66 \\ 162 \\ 32 \end{array}$$

$$+ \begin{array}{r} 53 \\ 806 \\ 87 \end{array}$$

$$\underline{\begin{array}{r} 119 \\ 969 \\ 19 \end{array}}$$

c, 406m 8cm, 369m 25cm, and 39m 45cm.

Sol:- m cm

$$\begin{array}{r} 406 \\ 8 \end{array}$$

$$\begin{array}{r} 369 \\ 25 \end{array}$$

$$+ \begin{array}{r} 39 \\ 45 \end{array}$$

$$\underline{\begin{array}{r} 814 \\ 78 \end{array}}$$

Qno.3:- Find The difference.

Sol a, km m sol b, m cm sol c, m cm mm

$$\begin{array}{r} 369 \\ 444 \end{array}$$

$$\begin{array}{r} 116 \\ 77 \end{array}$$

$$\begin{array}{r} 195 \\ 15 \\ 5 \end{array}$$

$$\underline{- \begin{array}{r} 236 \\ 652 \end{array}}$$

$$\underline{- \begin{array}{r} 86 \\ 96 \end{array}}$$

$$\underline{- \begin{array}{r} 85 \\ 63 \\ 9 \end{array}}$$

$$\underline{\begin{array}{r} 132 \\ 792 \end{array}}$$

$$\underline{\begin{array}{r} 29 \\ 81 \end{array}}$$

$$\underline{\begin{array}{r} 109 \\ 51 \\ 6 \end{array}}$$

Qno.4:- Subtract by writing in vertical form.

a, 25km 289m from 38km 321m.

Sol:- km m

$$\begin{array}{r} 38 \\ 321 \end{array}$$

$$\underline{- \begin{array}{r} 25 \\ 289 \end{array}}$$

$$\underline{\begin{array}{r} 13 \\ 032 \end{array}}$$

b, 85km 785m from 200km.

Sol:- km m

$$\begin{array}{r} 200 \\ 000 \end{array}$$

$$\begin{array}{r} = 85 \quad 785 \\ 114 \quad 215 \end{array}$$

$$\begin{array}{r} 114 \quad 215 \\ \hline \end{array}$$

C, 65m 85cm 9mm from 70m 28cm 7mm.

Sol:- m. cm mm

$$\begin{array}{r} 70 \quad 28 \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} - 65 \quad 85 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 42 \quad 8 \\ \hline \end{array}$$

d, 26km 289m 80cm 6mm from 30km 95cm 9mm.

Sol:- km m cm mm

$$\begin{array}{r} 30 \quad 000 \quad 95 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} - 26 \quad 289 \quad 80 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 711 \quad 15 \quad 3 \\ \hline \end{array}$$

Qno.5:- From a roll of 130m long electric wire, a piece of 18m 75cm is cut. Find the length of wire left in the roll.

Sol:- Total length of electric wire = 130m.

Wire cut from the roll = 18m 75cm.

∴ Length of wire left in the roll = m cm

$$\begin{array}{r} 130 \quad 00 \\ \hline \end{array}$$

$$\begin{array}{r} - 18 \quad 75 \\ \hline \end{array}$$

$$\begin{array}{r} 111 \quad 25 \\ \hline \end{array}$$

Qno.6:- Mr Verma and his family travelled 56km 525m on the first day, 45km 265m on the second day, and 38km 285m on the third day. What was the Total distance covered?

Sol:- Distance travelled on the first day = 56km 525m.
 " " " " 2nd " = 45km 265m.
 (P.T.O.)

Distance travelled on the 3rd day = 38km 285m.

∴ Total distance covered in three days = km m

56 525

45 265

+ 38 285

140 075

Qno. 7:- The distance from Delhi to Chandigarh is 250km. Mr Pinto has covered 178 km 575m so far. How much more does he need to travel?

Sol:- Distance from Delhi to Chandigarh = 250 km.

Mr Pinto covered = 178 km 575m.

∴ He need to travel more = km m

250 000

- 178 575

71 425

Qno. 8:- For the school race Anil ran 1 km 250m 35cm, Anju ran 2 km 325m 65cm, and Amar ran 3 km 175m 22cm. How much distance did they cover altogether?

Sol:- Anil ran = 1 km 250m 35cm.

Anju ran = 2 km 325m 65cm.

Amar ran = 3 km 175m 22cm.

∴ Total distance covered altogether = km m cm

1 250 35

2 325 65

+ 3 175 22

6 751 22