

》 ਪੁ।ना International School Shree Swaminarayan Gurukul, Zundal

Class -V Math - magic Sample Copy Year- 2022-23

CHAPTER - 8 MAPPING YOUR WAY

* EXERCISE POINT

• Introduction

- Convert centimeter to millimeters
- Convert kilometer into centimeters
- Map 1, 2, 3, 4,..... (in text book)
- Activity

***** Introduction:

• Define:

Map: A map is a visual representation of an entire area or part typically represented on a flat surface.

1 Kilometer =	1000 meters
1 meter =	100 centimeters
1 centimeter =	10 millimeters
1 kilometers =	100,000 centimeters

- Convert centimeter to millimeters:
 - a) $15 \text{ cm} = 15 \times 10 = 120 \text{ mm}$
 - b) 55 cm =
 - c) 76 cm =
 - d) 65 cm =
 - e) 114 cm =
- Convert kilometer to centimeters:
 - a) $23 \text{ km} = 23 \times 100000 = 2300000 \text{ cm}$
 - **b)** 85 km =
 - **c)** 90 km =
 - d) 196 km =
 - e) 200 km =

Activity:





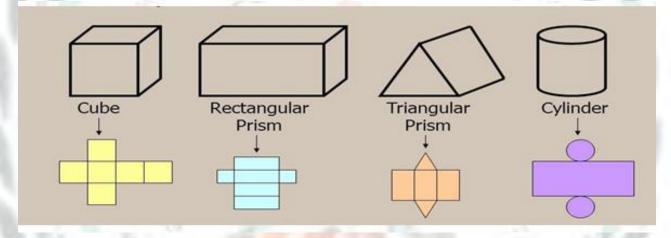
CHAPTER -9 BOXES AND SKETCHES

✤EXERCISE POINT

- Introduction
- Activity

Introduction:

- 3- D shapes : Shapes having length, breadth and height are called 3-D shapes. For eg cube, cuboid, boxes, etc
- 2-D shapes: Shapes having length and breadth only are called 2-D shapes. For egsquares, rectangle, etc
- We represent 3-D shapes on the paper in 2D. The representation is done by nets .For eg- Cube, Rectangular Prism, Triangular Prism, Cylinder, etc.



***** Activity:

• Make a sweet box. (Refer Text book pg.no.126 and 201)

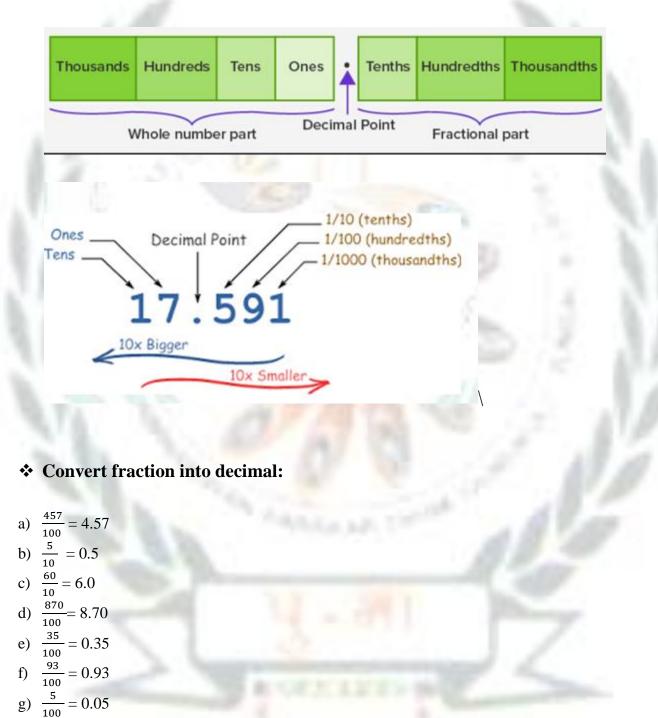


CHAPTER -10 TENTHS AND HUNDREDTHS

***** Exercise point:

- Introduction
- Convert fraction into decimal.
- Write as mixed numerical.
- Comparing using < , > or = .
- Arrange in ascending and descending order.
- Word problems.
- Fill in the blanks.
- Activity (in textbook)

***** Introduction:



✤ Write as mixed numerals:

a)
$$2.84 = 2\frac{84}{100}$$

b) $39.75 = 39\frac{75}{100}$
c) $77.77 = 77\frac{77}{100}$
d) $9.12 = 9\frac{12}{100}$
e) $281.4 = 281\frac{4}{10}$

✤ Comparison use sign (>,< or =)</p>

a)	99.5	>	99.05
b)	0.734	>	0.374
c)	369.5	>	3.695
d)	0.005	=	0.005
e)	6.49	<	64.9
f)	75.1	>	7.51
g)	2.87	=	(2.32 + 0.55)

Arrange in ascending order:

1)	2.35, 22.35,0.235,2.325
Ans	0.235,2.325,2.35,22.35
2)	7.64,77.064,7.46,77.604
Ans	7.46,7.64,77.064,77.604
•	
3)	1.05,3.05,0.05,2.05
3) Ans	1.05,3.05,0.05,2.05 0.05,1.05,2.05,3.05
Ans	0.05,1.05,2.05,3.05

Arrange in descending order:

1)	4.87, 4.78, 8.74, 8.47
Ans	8.74, 8.47, 4.87,4.78
2)	2.08, 2.80, 8.02, 8.20

Ans	8.20, 8.02, 2.80, 2.08
3)	9.054, 9.045, 9.450, 9.540
Ans	9.540, 9.450, 9.054, 9.045

Word problems:

1) Monika buy Rs 8.25 for chips and Rs 5.75 for chocolates. How much money did she pay?

Solution :

Monika buy chips = Rs. 8.25

She buy chocolates = Rs. 5.75

Total money she paid = Rs. 8.25 + Rs. 5.75

She paid Rs 14.00 to the shopkeeper.

2) Rohit had Rs 150. He bought sugar for Rs 19.50, rice for Rs 90 and biscuit for

Rs 28.25. How much money was he left with?

Solution: Rohit had Rs 150

19.50 he bought sugar

- + 90.00 he bought rice
- + 28.25 he bought biscuit
- 137.75 Total he purchase

Total money Rohit left with him = $150 - 137.75 = \text{Rs} \ 12.25$.

Fill in the blanks:

- a) 3 cm 4 mm is equal to 3.4 cm.
- b) 7.8 cm is equal to 7 cm and 8 mm.
- c) 15.4 cm is equal to 15 cm and 4 mm.
- d) 0.9 cm is equal to 0 cm and 9mm.
- e) 21 cm 3 mm is equal to 21.3 cm.
- f) 8 mm is equal to **0.8** cm.

***** Activity:

Using the scale and find the difference in length of candles and flame (Do In Text book page no - 136)

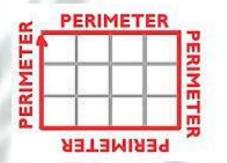
0	Length of	Length in cm and mm	Length tn cm
At A	Candle 1		
A	Flame 1		
Nº SA	Candle 2		
Cend	Flame 2		
Cand	Candle 3		
Had bridge	Flame 3		

CHAPTER -11 AREA AND IT'S BOUNDARY

* Exercise points

- Introduction
- Find the perimeter (using figure)
- Find the missing length (with help of perimeter)
- Word problem
- Fill in the blanks
- Activity

***** Introduction:





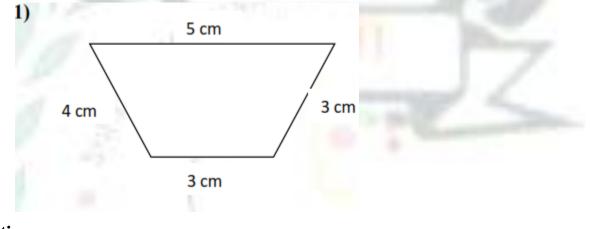
Define- Perimeter: The total length of all the line segments of a closed figure is called its perimeter.

- Perimeter of rectangle= 2(length + breadth)= 2(1 + b)
- Perimeter of square = $4 \times \text{length} = 4 \times 1$

Define- Area: The region enclosed between boundaries of a figure.

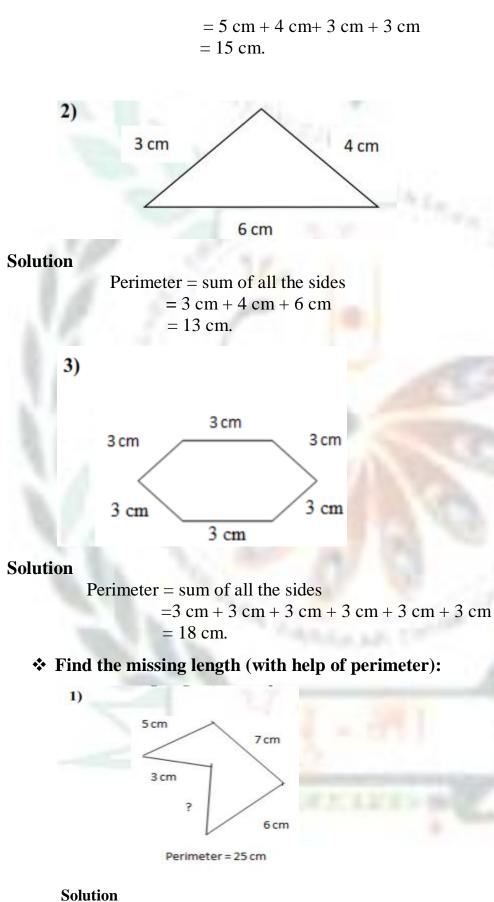
- Area of rectangle = Length × Breadth
- Area of square = length × Length

♦ Find the perimeter using figure:

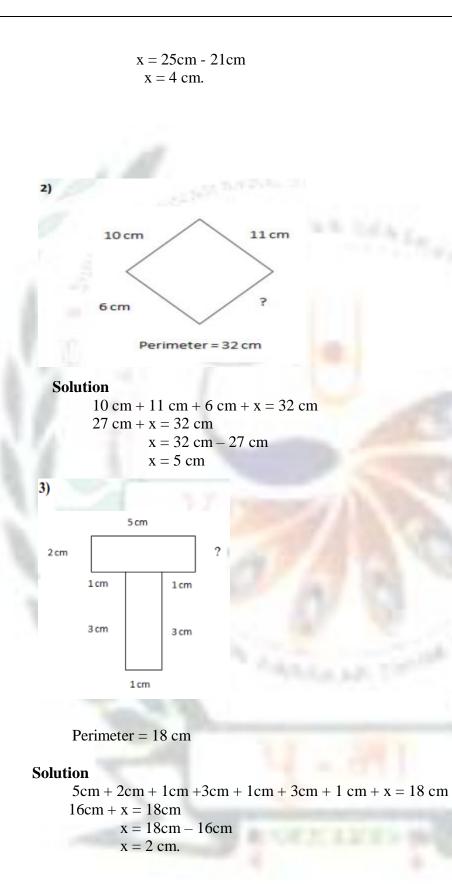


Solution

Perimeter = sum of all the sides



5 cm + 7 cm + 6 cm + 3 cm + x = 25 cm21 cm + x = 25 cm



- ***** Word problems:
- 1) The area of rectangular plot is 225 sq m. If the width of it is 9 m. What is the length of a rectangular plot?

Solution: Here, Area of rectangle = 225 sq m.

Width = 9 m Length =? Area of rectangle = length × width

Length =
$$\frac{\text{Area of rectangle}}{Width}$$

= $\frac{225}{9}$
= 25 m
Length = 25 m.

The length of a rectangular plot is 25 m.

2) The area of rectangular plot is 84 sq m. If the length of it is 12 m. What is the width of a rectangular plot?

Solution: Here, Area of rectangle = 84 sq m Length = 12 m Width =?

Width =
$$\frac{Area of rectangle}{Length}$$
$$= \frac{84}{12}$$

= 7 mWidth = 7 mThe width of a rectangular plot is 7 m.

3) The area of rectangular Splot is 375 sq m. If the length of it is 15 m. What is the width of a rectangular plot?

Solution: Here, Area of rectangle = 375 sq m.

Length = 15 m Width =? Width = $\frac{Area \ of \ rectangle}{Length}$ $= \frac{375}{15}$ = 25 mWidth = 25 m

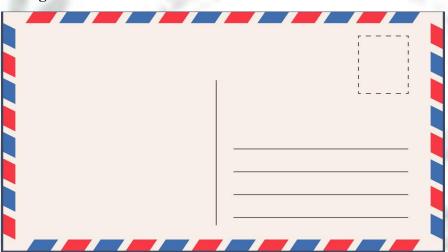
The width of a rectangular plot is 25 m.

Fill in the blanks:

1. The distance around a square field can be calculated using formula $4 \times$ length.

- 2. Area is region enclosed between the boundaries of a figure.
- 3. The measurement of length and breadth is needed to calculate the area of a **rectangle.**
- 4. A rectangle plot is 25 m \times 15 m in dimensions. The total wire needed to fence around it is 80 m.
- * Activity:
 - Find the area of any postcard and stamps.





Area of post card =?



Area of stamp =?

CHAPTER – 12 SMART CHARTS

* Exercise Point

- Introduction
- Show the tally mark
- Look the bar graph and complete the blanks
- Pie chart

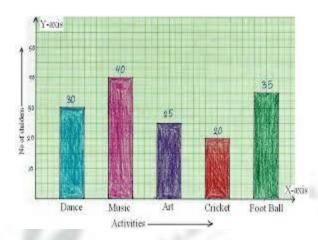
Introduction:

- **Define Data:** Data is collection of facts or information.
- Data collection can be done in different ways for example tally marks, bar graph, pie chart, etc.

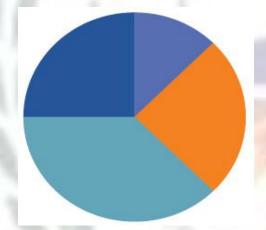
• Tally Marks

Numbers	Tally marks
1	
2	
3	
4	
5	Ĭ
6	ĭ₩I
7	1
8	ĭ₩III
9	1
10	₩₩

• **Bar graph:** A bar graph can be defined as a chart or a graphical representation of data, quantities or numbers using bars or strips.



• **Pie – charts:** A **pie chart** is a circle chart which is divided into slices to illustrate numerical proportion.



Show the tally marks foe the following information-

[A]

Animals	Cats	Dogs	Rabbits	Cows	Parrots	Goats	Squirrels
Numbers	25	10	9	13	15	20	3

Answer

Animals	Tally Marks	Numbers
Cats	***	25
Dogs	***	10
Rabbits		9
Cows		13
Parrots		15
Goats		20
Squirrels		3

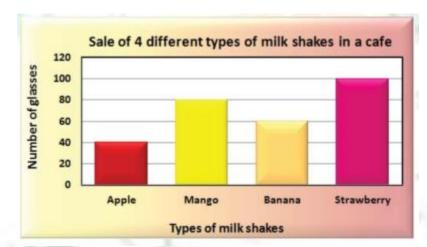
[B]

Juice	Apple	Orange	Pineapple	Guava	Litchi	Mixed fruit
Number	24	26	19	8	14	24

Answer

Juice	Tally Marks	Numbers
Apple	8.06	24
Orange		26
Pineapple		19
Guava		8
Litchi		14
Mixed fruit		- 24

The graph below shows the sale of 4 different milk shakes in a café on a Sunday see the graph and answer the question:

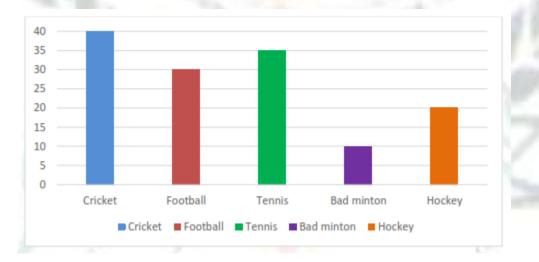


• Complete the blanks –

1) If a glass of banana shakes costs Rs 15, how much did the café owner earn from the sale of banana shakes?

Ans - <u>15 ×60 = 900.</u>

- Which shake is preferred by most number of children? Ans - <u>Strawberry</u>.
- 3) Least favorite juice is <u>Apple</u>.
- 4) Find the total number of shakes sold on Sunday?
 Ans 40 + 80 + 60 + 100 = 280.
- 5) What is difference between apple shake and mango shake sold? Ans - 80 - 40 = 40.



• Look the bar graph below and answer the question:

1) Which sport is played by the maximum number of students? Ans: Cricket

2) How many students play football?

Ans: 30 students

3) How many students go for tennis?

Ans: 35 students

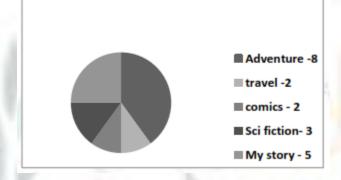
4) Which game is played the least by the students?

Ans: Bad Minton

5) How many like to play hockey?

Ans: 20 students

***** Look at the data shown in the pie chart given below. Answer the following questions



- 1) The survey was carried out on **20** children.
- 2) Adventure books are read by **8** children.
- 3) More number of children read My story and Adventure books than Science Fiction.
- 4) The same number of children read **Comics** and **Travel** books.

CHAPTER - 13 WAYS OF MULTIPLY AND DIVIDE

Exercise point

- Multiplication
- Divide and check your results
- Word problem
- Fill in the blanks
- Activity



1) 173 × 48	4) 5638 × 68
173 × 18	5638
× 48	× 68
_ 1384	+ 45104
+ 6920	+ 338280
8304	383384
2) 385 × 56	5) 6367 × 96
385	6367
× 56	× 96
+ 2310	38202
19250	+573030
21560	611232
3) 7456 × 28	
7456	
× 28	
59648	
+ 149120	
208768	

* Divide and check your result:

1) 4320 ÷ 7	4) 768 ÷ 6
617	128
7 4320	6 <u>768</u> 6
012	- <u>16</u> 12
50	048
- <u>49</u> 01	<u>48</u> 00

Check: Q × D + R = Dd	Check: Q × D + R = Dd		
617 × 7 + 1 = Dd	128 × 6 + 0 = Dd		
4319 + 1 = Dd	786 + 0 = Dd		
4320 = Dd	768 = Dd		
2) 3946 ÷ 3	5) 969 ÷ 4		
1215			
1315 3 3946			
3	242		
- 09	4 969		
004	<u>-</u> 8		
-3	- 16 - 16		
-16 -15	009		
01	$\frac{-8}{1}$		
heck: Q × D + R = Dd	Check: Q × D + R = Dd		
1315 × 3 + 1 = Dd	242 × 4 + 1 = Dd		
3945 + 1 = Dd	968 + 1 = Dd		
ASSESS VERY STREET, STREET, ST			

3) 5281 ÷ 15	
352	
15 5281 45	Check: Q × D + R = Dd
- 78 - 75	352 × 15 + 1 = Dd
031 - 30	5280+ 1 = Dd
01	5281 = Dd

- Word problems:
- 1) 945 chocolates are to be distributed among 63 students. Find the number of chocolates each student will get.

Solution: Total number of chocolates = 945 No of students = 63 The number of chocolates each student gets = $945 \div 63$ 1563945

15 chocolates each student will get.

2) Soham drinks 8 glasses of water every day. How many glasses he drinks in a year?

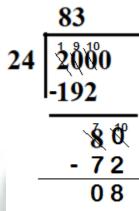
Solution: No. of glasses of water he drinks in a day = 8 No of days in a year = 365No of glasses of water he drinks in a year = 365×8

365 × 8 2920

Soham drinks 2920 glasses of water in a year.

3) Anita bought a battery. She read on it life 2000 hours. She uses it throughout the day and night. How many days will the battery run?

Solution: No. life hours of a battery = 2000No. of hours in a day = 24No. of days battery will run = $2000 \div 24$



The battery will run 83 days and 8 hours.

4) Garima has Rs 500 with her. She wants to buy milk whose cost is Rs 50 per litre. How many liters of milk can she buy?

Solution: No. of money Garima has = Rs 500 Cost of milk per litre = Rs 50 No. of liters of milk she can buy = $500 \div 50$ = 10 litters

Garima can buy 10 liters of milk.

Fill in the blanks

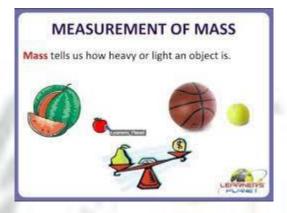
- 1) The number to be multiplied in the **multiplicand**.
- 2) The number with which use multiply is the **multiplier**.
- 3) The answer in multiplication is the **product.**
- 4) Repeated **addition** is known as multiplication.
- 5) 934 × **726** = **934**× 726
- 6) **9728** × 1 = 9728
- 7) $9869 \times 0 = 0$
- 8) $135 \times (297 \times 517) = (517 \times 297) \times 135$
- 9) $8304 \times 1 = 8304$
- 10) Quotient × divisor = **dividend**
- 11) Quotient × divisor + remainder = dividend

CHAPTER – 14 HOW BIG? HOW HEAVY?

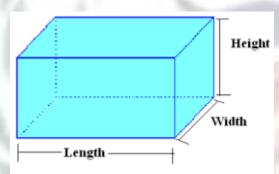
***** Exercise Point

- Introduction
- Find the volume of cube/ cuboid
- Word problem
- Fill in the blanks
- Activity

- **Define Mass** Mass is a measure of the amount of matter in an object.
- Mass is measure in kilogram (kg).
- 1 gram = 1000 milligram.



- **Define Volume** The Space occupied by the solid it's called Volume.
- Volume of Cube = Side \times Side \times Side = (Side)3
- Volume of Cuboid = Length × Width × Height
- Volume is measure in terms of cubic unit.



• Find the volume of cube/ cuboid

No.	Cube/ cuboid		Volume = $l x b x h$	
	Length	Breadth	Height	=l x l x l
1	6 cm	4 cm	3 cm	= 72 cm3
2	12 cm	5 cm	5 cm	= 300 cm3
3	15 cm	15 cm	15 cm	= 3375 cm3
4	8 cm	8 cm	8 cm	= 512 cm3

Word Problems:

1) A Match box measure 5 cm \times 3 cm \times 2 cm find its volume.

Solution:

Volume = length \times width \times height

$$= 5 \text{ cm} \times 3 \text{ cm} \times 2 \text{ cm}$$
$$= 30 \text{ cm}3$$

2) The dimensions of a pencil box are $10 \text{ cm} \times 5 \text{ cm} \times 2 \text{ cm}$. Find its volume.

Solution:

Volume of pencil box = $10 \text{ cm} \times 5 \text{ cm} \times 2 \text{ cm}$ = 100 cm3

3) How many soap cakes of dimensions 10 cm × 8 cm × 6 cm can be packed in a box having dimensions 10 cm × 60 cm × 40 cm?

Solution:

Volume of box = $10 \text{ cm} \times 60 \text{ cm} \times 40 \text{ cm}$ = 24000 cm3

Volume of Soap = $10 \text{ cm} \times 8 \text{ cm} \times 6 \text{ cm}$ = 480 cm3

No. of soaps = $\frac{Volume \ of \ box}{Volume \ of \ soap}$

 $=\frac{24000}{480}$ = 50

50 soaps can be packed in a given box.

 4) How many bricks of length 20 cm, breadth 4 cm and height 6 cm will be needed to build a wall of length 10 cm, thickness 6 cm and height 2 m? (Hint - 1m = 100cm)

Solution: Here, Height - 2 m = 200 cm Volume of wall = 10 cm \times 6 cm \times 200cm = 12000 cm3

> Volume of brick = $20 \text{ cm} \times 4 \text{ cm} \times 6 \text{ cm}$ = 480 cm3

No. of bricks = $\frac{Volume \ of \ wall}{Volume \ of \ brick}$

 $=\frac{12000}{480}$

= 25

25 bricks needed to build a given wall.

✤ Fill in the blanks:

- 1) The space occupied by a solid is its Volume.
- 2) Two solids of the same shape and same size have **same** volume.
- 3) Volume is **three** dimensional.
- 4) Volume is measured in terms of **Cubic** Unit.
- 5) Volume of liquids is measured in liters
- 6) 1 liter = **1000**cubic cm.
- 7) 1 cubic meter = 1000 liters
- 8) Mass is a measure of the amount of matter in an object.

* Activity

Find the volume of match box.

