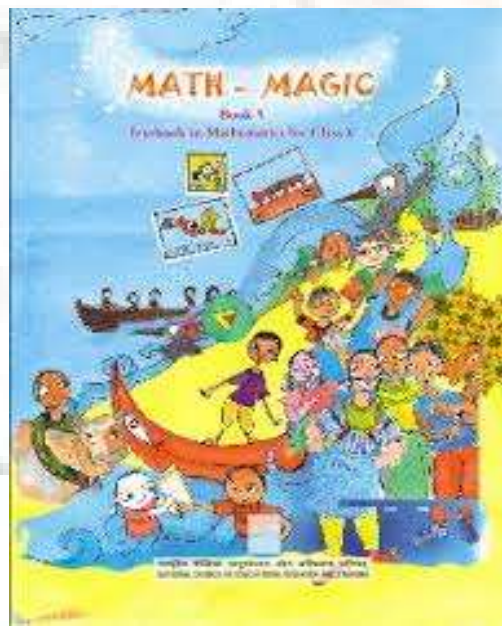


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Mathematics
Study material



Ch-8 Mapping your way

❖ Summary:

- Introduction
- Convert centimeter to millimeters
- Convert kilometer into centimeters
- Map 1, 2 and 4
- 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:-

Example:

$$12 \text{ cm} = 12 \times 10 = 120 \text{ mm}$$

- 45 cm = _____
- 75 cm = _____
- 65 cm = _____
- 14 cm = _____

- Convert kilometer to centimeters:-

Example:

$$13 \text{ km} = 13 \times 100000 = 1300000 \text{ cm}$$

- a) 23 km = _____
- b) 35 km = _____
- c) 96 km = _____



- **Have you seen a map of a city? Look at Map**

1) **Match it with the photo and find out where India Gate is. Draw it on the map.**

Ans. 1. Yes, I have seen a map of a city. After matching the map with the photo, the position of India Gate is shown below.

2) **Some roads are shown in this part of the map. Look for them in the photo.**

Ans. 2 The roads shown in the map are clearly visible in the photo.

3) **Name roads that you will cross on your way from Rashtrapati Bhawan to India Gate.**

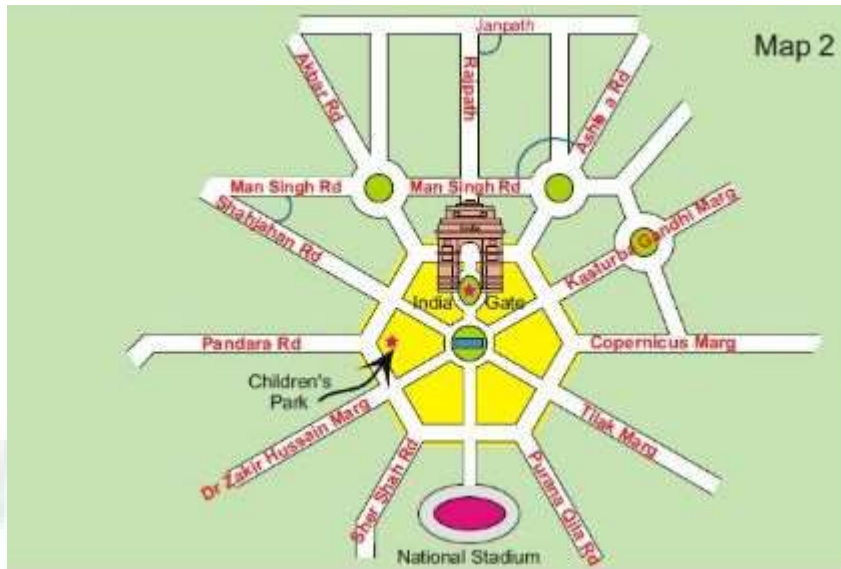
Ans. 3 On my way from Rashtrapati Bhawan to India Gate I have crosses following roads:

Rafi Marg, Janpath and Man Singh Road.

4) **Look for the National Stadium in Map 1. Can you see it in the photo?**

Ans. 4 The National Stadium is seen in Map 1, but cannot be seen in the photo.

❖ **Map 2:**



- Find out from the map 2:

1) If you are walking on Rajpath then after India Gate on which side would Children's Park be?

Ans. The children's park would be on the right side.

2) Which of these roads make the biggest angle between them?

- (a) Man Singh Road and Shahjahan Road
- (b) Ashoka Road and Man Singh Road
- (c) Janpath and Rajpath

3) Which of the above pairs of roads cut at right angles?

Ans: Janpath and Rajpath cut at right angles.

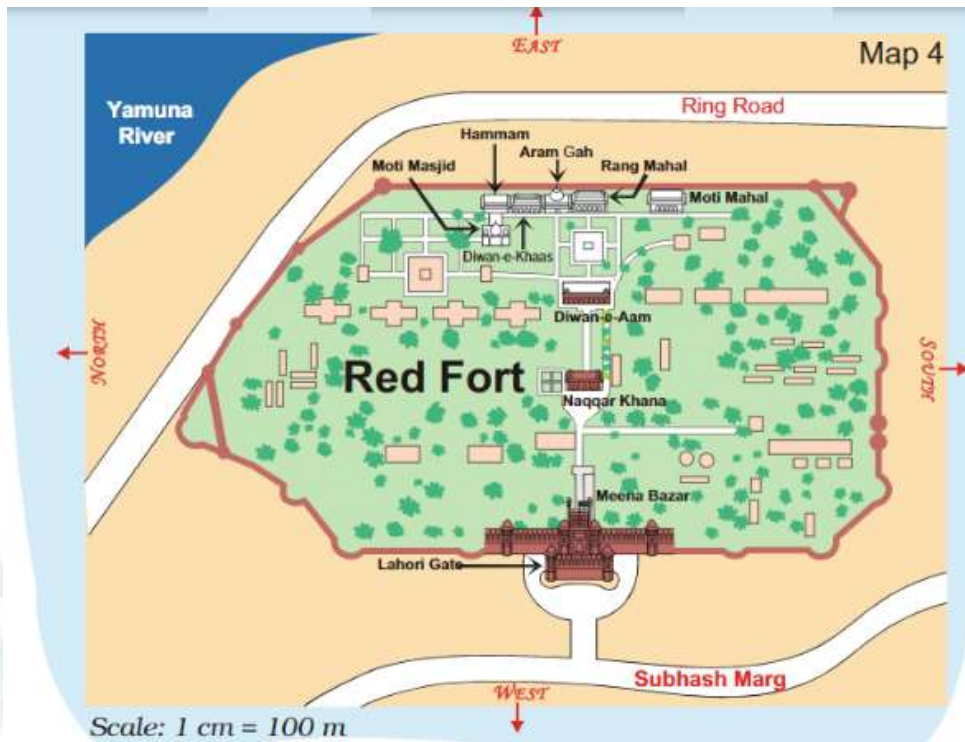
4) What is angle formed between Man singh road and Shah jahan road?

Ans: Acute angle

5) Which geometrical shape is formed by Janpath, Akbar, man singh and Ashoka roads?

Ans: Quadrilateral

❖ **Map 4:**



• **Find out from the map 4:**

1) **Which of these is nearer to river Yamuna? — the Diwan-e-Aam or the Diwan-e-Khaas?**

Ans: Diwan-e-Khaas is nearer to river Yamuna.

2) **Between which two buildings is AramGah?**

Ans: Aram Gah is between Diwan-e-Khaas and Rang Mahal.

3) **Which buildings do you pass while going from Rang Mahal to the Hammam?**

Ans: While going from Rang Mahal to Hammam we pass through Aram Gah and Diwan-e-Khaas.

4) **Which building on this map is farthest from Meena Bazar?**

Ans: Hammam is farthest from Meena Bazar.

5) **About how far is Lahori Gate from Diwan-e-Khaas?**

Ans: Lahori Gate is about 600 m from Diwan – e – khaas.

(Scale: 1 cm = 100 m)

$$6 \text{ cm} = 6 \times 100 = 600 \text{ m}$$

6) The out line of this map shows which place?

Ans: Red Fort.

❖ Activity:

- Show union territories on India's map.



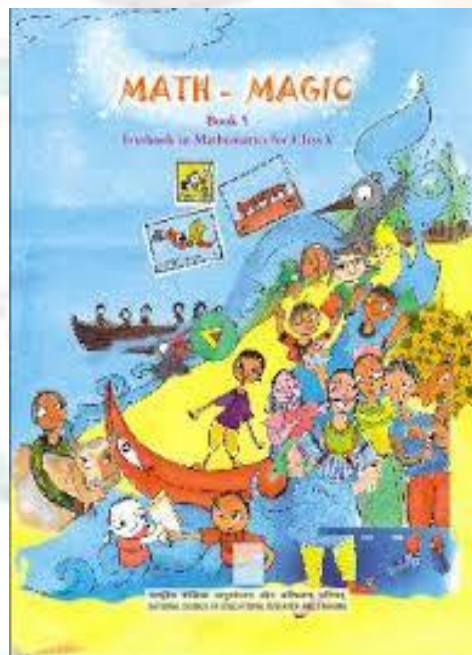


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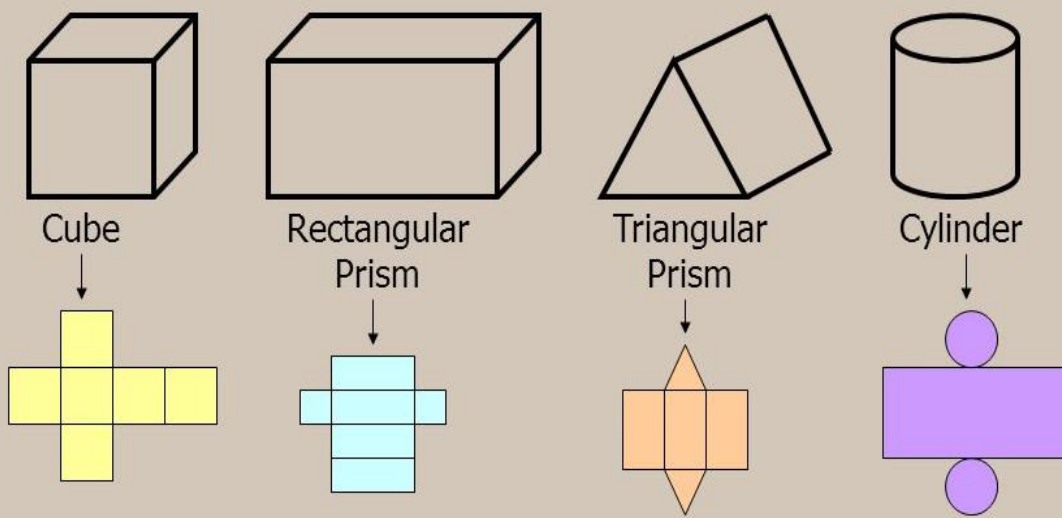
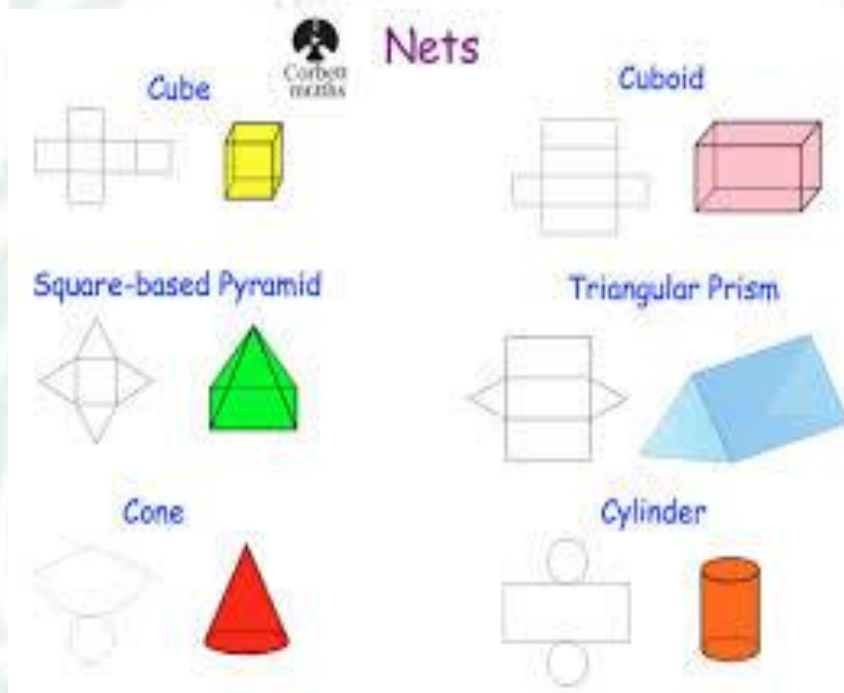
Ch- 9 Boxes and sketches

❖ Summary:

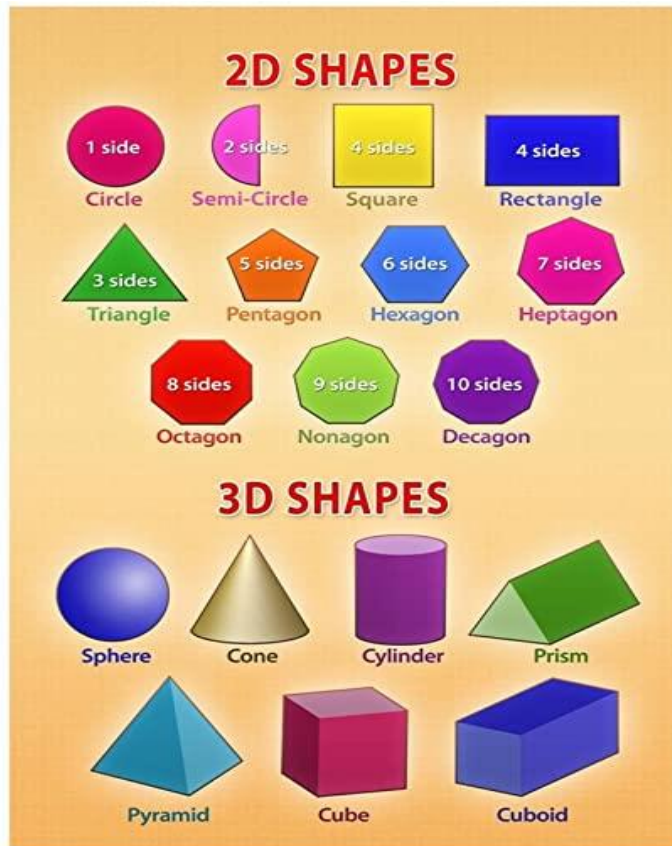
- Introduction
- Identify the 2 - D shapes and 3 – D shapes.
- Draw sketches figures
- Match the following
- Activity

❖ Introduction:

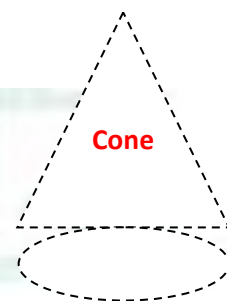
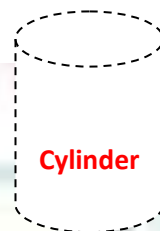
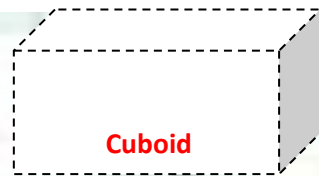
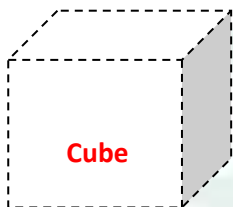
- **Objects and their unfolded Images:**



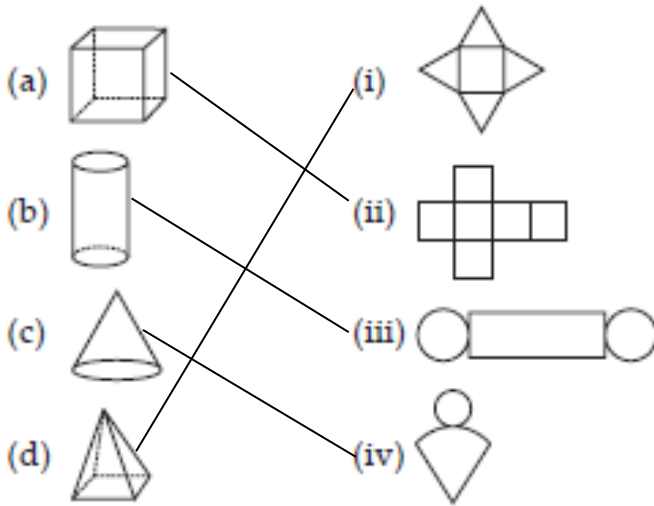
- Identify the 2 - D shapes and 3 - D shapes.
Example



❖ **Sketches:**



❖ Match the following:



Answer: (a-ii), (b-iii), (c-iv), (d-i)

❖ Activity:

- Make a sweet box (Text book page no: 126 and 201)



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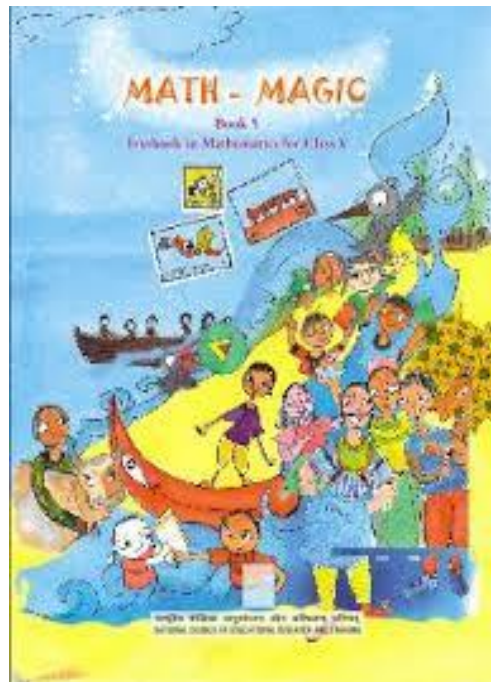


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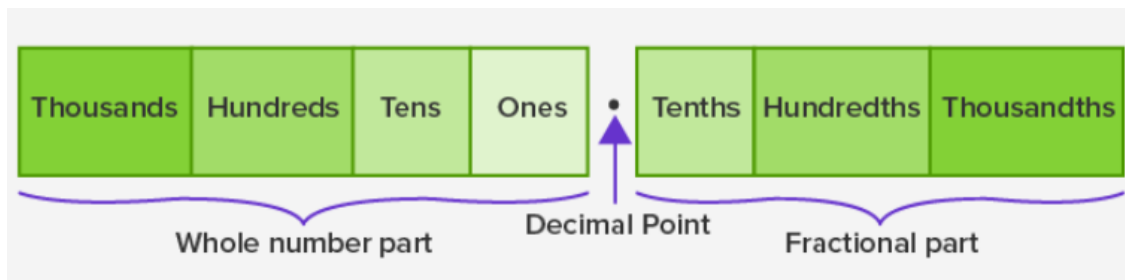


Ch-10 Tenths and Hundredths

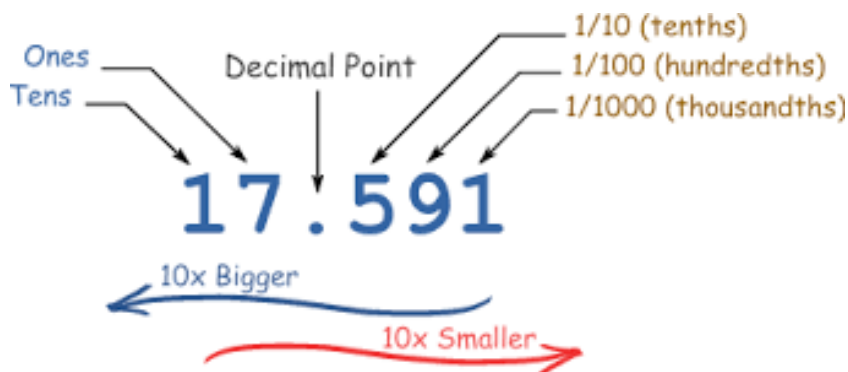
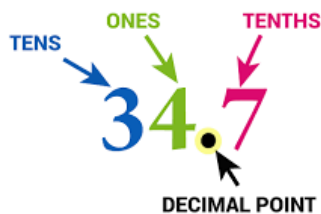
❖ Summary:

- Introduction
- Fill in the blanks
- Complete the boxes
- Convert fraction into decimal
- Write as mixed numerals
- Compare using $>$, $<$ or $=$
- Arrange in ascending and descending order
- Dividing decimals
- MCQ's
- Word problems

❖ Introduction:



Example:



❖ **Fill in the blanks:**

- 1) 3 cm 4 mm is equal to 3.4 cm
- 2) 7.8 cm is equal to 7 cm and 8 mm
- 3) 15.4 cm is equal to 15 cm and 4 mm
- 4) 0.9 cm is equal to 0 cm and 9 mm
- 5) 21 cm 3 mm is equal to 21.3 cm
- 6) 8 mm is equal to 0.8 cm

❖ **Complete the boxes: (Hint: 1 Re = 100 paise)**

	Rupee/paise	Fraction	Decimal
a)	60 paise	Rs $\frac{3}{5}$	<u>Rs 0.60</u>
b)	35 paise	Rs $\frac{7}{20}$	<u>Rs 0.35</u>
c)	93 paise	Rs $\frac{93}{100}$	<u>Rs 0.93</u>
d)	5 paise	Rs $\frac{1}{20}$	<u>Rs 0.05</u>
e)	25 paise	Rs $\frac{1}{4}$	<u>Rs 0.25</u>

Solve:

Fraction a) $\frac{60}{100} = \frac{6}{10} = \frac{3}{5}$

Decimal = a) $\frac{60}{100} = 0.60$

b) $\frac{35}{100} = \frac{7}{20}$

d) $\frac{5}{100} = \frac{1}{20}$

e) $\frac{25}{100} = \frac{1}{4}$

❖ **Convert fraction into decimal:**

1) $\frac{457}{100} = 4.57$

2) $\frac{5}{10} = 0.5$

3) $\frac{1}{2} = 0.5$

4) $\frac{3}{4} = 0.75$

5) $\frac{60}{10} = 6$

6) $\frac{870}{100} = 8.7$

7) $200 + 0 + 2 + \frac{1}{10} + \frac{3}{100} = 202.13$

8) $50 + 6 + \frac{0}{10} + \frac{0}{100} = 56.00 = 56$

❖ Write as mixed numerals:

- 1) $2.84 = 2\frac{84}{100}$
- 2) $39.075 = 39\frac{75}{1000}$
- 3) $77.77 = 77\frac{77}{100}$
- 4) $9.120 = 9\frac{120}{1000}$
- 5) $281.004 = 281\frac{4}{1000}$

❖ Comparison use sign (>, < or =)

- 1) $0.734 \geq 0.374$
- 2) $99.5 \geq 99.05$
- 3) $\frac{3695}{10} \geq 3.695$
- 4) $0.005 \equiv 0.005$
- 5) $\frac{649}{100} \leq 64.9$
- 6) $75.1 \geq 7.51$
- 7) $0.09 \geq 0.009$
- 8) $2.87 \equiv 2.32 + 0.55$

❖ 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
Ans	0.05, 1.05, 2.05, 3.05
4)	2.09, 9.02, 2.90, 9.20
Ans	2.09, 2.90, 9.02, 9.20

❖ 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
4)	6.32, 6.23, 6.302, 6.023
Ans	6.32, 6.302, 6.23, 6.023

❖ **Decimal Division:**

1) $191.5 \div 5$

$$\begin{array}{r} 36.3 \\ 5 \overline{) 191.5} \\ \underline{- 15} \\ 31 \\ \underline{- 30} \\ 15 \\ \underline{- 15} \\ 0 \end{array}$$

2) $6.30 \div 7$

$$\begin{array}{r} 0.90 \\ 7 \overline{) 6.30} \\ \underline{- 63} \\ 00 \end{array}$$

3) $100.4 \div 25$

$$\begin{array}{r} 4.016 \\ 25 \overline{) 100.4} \\ \underline{- 100} \\ 40 \\ \underline{- 25} \\ 150 \\ \underline{- 150} \\ 0 \end{array}$$

Since we know that 4 is not a multiple of 25.

Put zero till the division is complete.

Put zero till the division is complete.

4) $5 \div 9$

$$\begin{array}{r} 0.5555 \\ 9 \overline{) 5.000} \\ \underline{45} \\ 050 \\ \underline{45} \\ 050 \\ \underline{45} \\ 050 \\ \underline{45} \\ 05 \end{array}$$

5) $121 \div 8$

$$\begin{array}{r} 15.125 \\ 8 \overline{) 121.000} \\ \underline{-8} \\ 41 \\ \underline{-40} \\ 10 \\ \underline{-8} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

6) $33 \div 6$

$$\begin{array}{r} 5.5 \\ 6 \overline{) 33.0} \\ \underline{30} \\ 30 \\ \underline{30} \\ 0 \end{array}$$


❖ **MCQ's:**

- 1) Which temperature is the warmest?
a) 0°F b) 0°C c) 32°F **d) 32°C**

- 2) $9\text{ cm} = \underline{\hspace{2cm}}$ mm
a) 0.9 **b) 90** c) 900 d) 9000

- 3) Eighty-seven hundredths are:
a) 8700 b) 870 c) 8.7 **d) 0.87**

- 4) Four hundred fifty-seven thousandths are:
a) 0.407 b) 457 c) **0.457** d) 45700

- 5) The shaded part in 
a) Eight-tenths **b) six- eighth** c) two – eighth d) eight-hundredths

- 6) The smallest and greatest factor of 105 _____
a) 5,105 b) 105, 21 c) **1, 105** d) 1,5

- 7) Seven-tenths of a cm is equal to **0.7** cm.
a) 7 b) 0.07 c) **0.7**

- 8) Three-hundredths of a m is **0.003** cm
a) 0.03 b) 0.03 c) **0.003**

❖ **Word problems:**

- 1) **Monika paid Rs 8.25 for chips and Rs 5.75 for chocolates. She got Rs 7 as return from the shop keeper. How much money did she pay?**

Solution: Monika paid

$$\begin{array}{r} 8.25 \text{ chips} \\ + 5.75 \text{ chocolates} \\ \hline 14.00 \text{ Total} \end{array}$$

$$\begin{array}{r} 14.00 \text{ Total} \\ + 7.00 \\ \hline 21.00 \text{ she paid to shopkeeper} \end{array}$$

Monika paid Rs 21.00 to 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

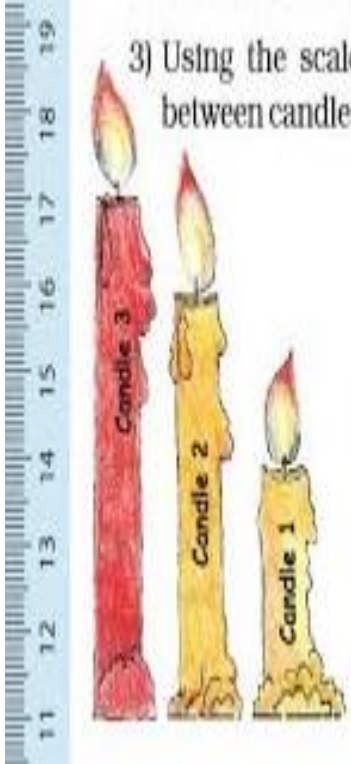
He bought	19.50	sugar
	+ 90.00	rice
	+ 28.25	biscuit
	<hr/>	
	137.75	Total

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

❖ **Activity:**

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

3) Using the scale on this page find the difference in length between candle 1 and candle 3.



Length of	Length in cm and mm	Length in cm
Candle 1		
Flame 1		
Candle 2		
Flame 2		
Candle 3		
Flame 3		