

DECIMALS AND PERCENTAGES

1. Write in decimals

(a) Five and seventy-three thousandths

(b) $345 + \frac{3}{10} + \frac{5}{1000}$

2. Write in words: 925.45

3. Write the expanded fractional form of: 381.47

4. Express the following as fractions and reduce to its lowest terms:

(a) 6.25

(b) 75.1

5. Convert the following fractions into decimals:

(a) $\frac{85}{150}$

(b) $\frac{16}{25}$

6. Convert the unlike decimals into like decimals in each of the followings:

(a) 911.5, 74.3338, 512.51

(b) 325.09, 3559.948, 212.8

7. Write the decimals in the ascending order: 262.47, 778.33, 787.32, 226.223

8. Write the decimals in the descending order: 347.23, 372.13, 321.63, 325.153

9. Add the given decimal numbers: $396.1 + 3212.332 + 2839.45$

10. Subtract the given decimal numbers: $102.93 - 78.286$

11. Multiply the following decimals:

(a) 847.42×100

(b) 6.79×0.568

12. Find the quotient in the following:

(a) $755.6 \div 1000$

(b) $4.8 \div 0.08$

13. Find:

(a) 15% of 2300km

(b) 5% of ₹ 500

(c) 32% of 700ml

(d) 40% of 90days

14. Out of 140 teachers in a school, 40% are males. Find the number of female teachers in the school.

15. The monthly fees of a school is ₹ 2850. The school increased the fees by 15% this month. How much will the student have to pay the next month?

16. What percentage of 200 is same as 50% of 300?

SHAPES AND FIGURES

1. Draw the following angles using a protractor:

(a) 75°

(b) 105°

(c) 160°

2. What is the measure of each of the angles of an equilateral triangle?

3. Classify the angles as acute, obtuse, straight, reflex, zero, right or complete:

(a) 90°

(b) 10°

(c) 190°

(d) 147°

(e) 360°

4. Construct a circle with radius 3cm. Also find its diameter and circumference.

5. State whether 33° , 45° and 90° can possibly be the angles of a triangle? Give reason in support of your answer.

6. In $\triangle ABC$, $\angle A = 20^\circ$, $\angle B = 85^\circ$, find $\angle C$.

7. State whether the following statements are true or false. Also correct the statement if it is false.

(a) A trapezium has one pair of opposite sides parallel.

(b) Every rectangle is a square.

(c) A triangle can have two obtuse angles.

(d) The diameter does not pass through the centre of the circle.

(e) A scalene triangle has all its sides equal.

8. One of the acute angles of a right angled triangle is 42° . Find the other acute angle.

9. Write the properties of a trapezium and a parallelogram.

MEASUREMENT AND TEMPERATURE

1. Convert the following:

- (a) 4cg into dg (b) 45hm into m (c) 5dam 5cm into cm (d) 34l 21cl into cl
(e) 454 m into km (f) 95g 50mg into g (g) 705l into kl (h) 778 cl into dal

2. Add the following:

- (a) 3m 24cm, 9m 3cm and 79cm (b) 2kl 6hl, 7hl and 4kl 4hl (c) 3kg 825g, 9kg and 108kg 65g

3. Subtract:

- (a) 18l 650ml from 55l 95ml (b) 14m 32mm from 25m 95mm (c) 8g 10mg from 30g

4. Multiply:

- (a) 3.12l by 8.7 (b) 1.821 kg by 5.2 (c) 4.6cm by 7.1

5. Divide:

- (a) 92.40l by 2.1 (b) 85.50g by 2.5 (c) 5.75m by 2.3

6. If the weight of a road roller is 1245kg 350g and that of a crane is 1439 kg 250g, find what weighs more and by how much.

7. A sipper can hold 275ml water. A pitcher can hold water from 19 such sippers. What is the capacity of the pitcher?

8. Sunita bought 27m 12cm of rope. She divides the rope into 12 clotheslines of equal size. What is the length of each clothesline?

9. Convert the following temperatures to degree Celsius:

- (a) 86 °F (b) 98.6°F

10. Convert the following temperatures to degree Fahrenheit:

- (a) 50 °C (b) 102°C

PERIMETER, AREA AND VOLUME

1. Find the perimeter and area of a rectangle in which length is 6 m and breadth is 45cm.

2. A floor of length 25 m and breadth 20 m has to be paved with rectangular tiles of length 16cm and breadth 5cm. Find the number of tiles required.

3. Find the area of a square of length 62 cm in sq. meters. Also find the perimeter of the square in metres.

4. The distance covered in going five times around a square shaped park is 1325 m. Find the area of the park?

5. Find the cost of lacing an equilateral triangular piece of cloth of side 105 cm at the rate of ₹ 25 per centimetre.

6. How many cubic centimetres are there in a cubic metre?

7. A water tank is 160cm long and 45cm deep. Find the width of the tank if it contains 576 litres of water, given that 1 litre = 1000 cu cm.

8. Two plots of land have same perimeter. One is a square while the other is a rectangle of length 70m and breadth 56m. Which has greater area and by how much?

9. How many soap cakes each measuring 5 cm × 4 cm × 2 cm can be packed in a carton measuring 1.5 m × 1.2 m × 0.8 m?

TIME

1. Convert the following:

- (a) 52 hours into days and hours (b) 25 hours 4 minutes into minutes
(c) 54 months into years and months (d) 2 years 7 months into days
(e) 6 days 3 hours into hours (f) 720 seconds into minutes and seconds
(g) 700 days into years and days (h) 16 minutes 25 seconds into seconds
(i) 5 centuries into years

2. What time was it 2 hours 15 minutes before 1:30 p.m.?

3. What time will it be 9 hours 10 minutes after 10:20 a.m.?

- Roma starts doing exercise at 5:30 a.m. and completes after 1hour 30 minutes. At what time does she complete her exercise?
- Gagan plays 1 hour 40 minutes and Sumesh plays for 100 minutes. Who plays for shorter period?
- A train scheduled to arrive at 10:30 a.m. is delayed by 6 hours 15 minutes. What is the new arrival time?

MONEY

1. Make a bill for Om Prakash and the amount for the following.

- | | |
|--|---|
| (a) 4 kg rice at ₹ 25 per kg | (b) 6 bottles of sauce at ₹ 36 per bottle |
| (c) $\frac{1}{2}$ litre of oil at ₹ 28 per litre | (d) 10 kg tea at ₹ 60 per kg |

Also find the balance the shopkeeper will return him, if he pays ₹ 2000.00 to him.

2. Find the profit or loss.

- | | |
|------------------------------|----------------------------|
| (a) CP = ₹ 4580; SP = ₹ 3500 | (b) CP= ₹ 4590; SP= ₹ 9990 |
|------------------------------|----------------------------|

3. Find the cost price, if the selling price is ₹ 8327.00 and the profit earned is ₹ 475.25.

4. Bhanu bought a second-hand car for ₹ 5,20,300 and spent ₹ 10,000 on repairing. He sold it for ₹ 6,00,000.

Find his loss or gain.

5. The cost of 6 badminton racquets is ₹ 450. What is the cost of 17 such racquets?

6. At a fair Aditi bought 20sarees each costing ₹ 3409.50. How much did she pay?

7. Mr. Ramesh earns ₹ 8400 in 3months.

- How much will he earn in 6 months?
- In how many months will he earn ₹ 5600?

DATA HANDLING

1. The weight of some students is given below (in kg):

39, 40, 42, 39, 42, 38, 39, 38, 42, 40, 39, 38, 39, 39, 40, 41, 42, 42, 40, 39, 38, 38, 39, 40

Using tally marks arrange the above data in tabular form.

2. The students of class V voted for their favourite subject as follows:

SUBJECT	ENGLISH	HINDI	MATHS	EVS	III LANGUAGE	COMPUTER
NUMBER OF STUDENTS	70	35	65	40	50	80

Represent the data using a bar graph. (Use the scale of 10 students). Also draw the line graph for the above data.

3. Read the pie chart given in figure 1 and answer the following questions:

- What percentage of people like foreign movies?
- Which type of movie is liked the least?
- Two types of movies are liked by equal percentage of people. Name them.
- How many people liked action movies, if the data is collected from 4000 people?

