

CHAPTER 7

PERCENTAGE

More Questions for Practice

- Write each of the following percentages as a decimal:
(a) 47% (b) 2% (c) 30%.
- Convert each of the following decimals as a percentage:
(a) 0.63 (b) 0.05 (c) 0.75.
- Write each of the following as a percentage:
(a) 1.2 (b) 1 : 4 (c) 3 : 4 (d) 19 : 20.
- Find:
(a) 50% of ₹ 370 (b) 18% of ₹ 2,050.
- Find:
(a) 65% of 1 kg (b) 100% of ₹ 10 (c) 16% of ₹ 25
(d) 37.5% of 1200 litres (e) $4\frac{1}{2}\%$ of 20 kg.
- (a) Find the number which when increased by 10% becomes 88.
(b) Find the number which when decreased by 35% becomes 5395.
- A watch gains 3 minutes a day. What per cent of time does it gain?
- In measuring a line segment of length 2.5 cm, it was measured as 2.55 cm by mistake. Find the error per cent.
- The speed of a train is 90 km/h. It is increased by 10%. Find the new speed of the train.
- Najma purchased 15 metres of cloth, out of which 15% was used for making a shirt. How much cloth was used for making the shirt?
- Manju's monthly salary was ₹ 12,400. Her salary is increased by 2%. How much increase does she get? Also, find her increased salary.
- A shopkeeper increases the price of a television set by 8%. If the original price is ₹ 6,400, what is its new price?
- A car loses 55% of its value after four years. If it costs ₹ 6,50,000 when new, what is its value after four years?
- When 60% of a number is added to 60, the result is the same number. Find the number.
- The monthly expenditure of a family on food is ₹ 4,500. If the price of food items is increased by 8%, find the increased expenditure of the family on food.
- Renuka's annual income is ₹ 20,000. She spends ₹ 15,000. What percentage of her income does she spend?
- In an election, out of 75,000 eligible voters, 50,000 cast their votes. What was the percentage of eligible voters not casting their votes?

18. On the selling price of ₹ 400, Hari Ram paid ₹ 28 as sales tax. What was the percentage of sales tax charged?
19. The excise duty on a certain item is reduced to ₹ 870 from ₹ 1,160. Find the percentage reduction in the excise duty for that item.
20. An iron rod on heating expanded to one and a half of its length. Find out the percentage increase in the length of the rod.
21. Hari is 160 cm tall. His sister Deepa is 6% shorter than him. What is Deepa's height?
22. After deducting 10% of the amount of a bill, ₹ 738 is left to be paid. What is the original amount of the bill?
23. In an examination a student has to secure 48% marks to pass. If Ravi gets 247 marks and fails by 5 marks, what are the maximum marks?
24. If 87.5 kg of flour remains with a shopkeeper in the evening after he sells off 30% of the flour that he had in the morning, how much flour did the shopkeeper start with in the morning.
25. At present a tank holds 60 litres of water. It is only 30% full. How many more litres of water should be put in this tank so that it is 50% full?
26. Out of a monthly salary of ₹ 4,500, Kavita saves one third. Of the remainder, she spends 50% on food and 20% on house rent. How much does she spend on food and house rent together?
27. The weight of a 3 month old baby is 6.08 kg. This is 190% of her weight at birth. Calculate the baby's birth weight.
28. A reduction of 20% in the price of sugar enables a purchaser to obtain 8 kg more for ₹ 160. What is the reduced price per kg? What was the price per kg before reduction?

ANSWERS

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|-----------------|----------------------|-----------------------|----------------|---------------|-------------|
| 1. (a) 0.47 | (b) 0.02 | (c) 0.3 | 2. (a) 63% | (b) 5% | (c) 75% |
| 3. (a) 120% | (b) 25% | (c) 75% | (d) 95% | 4. (a) ₹ 185 | (b) ₹ 369 |
| 5. (a) 650 g | (b) ₹ 10 | (c) ₹ 4 | (d) 450 litres | (e) 900 g | |
| 6. (a) 80 | (b) 8300 | 7. $\frac{5}{24}\%$ | 8. 2% | 9. 99 km/h | |
| 10. 2.25 metres | 11. ₹ 248; ₹ 12648 | 12. ₹ 6,912 | 13. ₹ 2,92,500 | 14. 150 | |
| 15. ₹ 4,860 | 16. 75% | 17. $33\frac{1}{3}\%$ | 18. 7% | 19. 25% | 20. 50% |
| 21. 150.4 cm | 22. ₹ 820 | 23. 525 | 24. 125 kg | 25. 40 litres | 26. ₹ 2,100 |
| 27. 3.2 kg | 28. ₹ 4, ₹ 5 per kg. | | | | |