Fractions in Disguise

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. 12 : 15 in its simplest form is:
(a) 8 : 15 **(b)** 5 : 4 **(c)** 5 : 6 **(d)** 4 : 5

2. 31/50 as a percentage is:
(a) 62% **(b)** 6.2% **(c)** 3150% **(d)** 38%

3. 20% of 40 is:
(a) 20 **(b)** 80 **(c)** 60 **(d)** 8

4. 15% written as a decimal is:
(a) 15 **(b)** 1.5 **(c)** 0.15 **(d)** 0.015

5. Which ratio is equivalent to 4 : 7?
(a) 20 : 35 **(b)** 35 : 20 **(c)** 9 : 12 **(d)** 20 : 12

6. An article bought for Rs 392 is sold for Rs 335. This is a:
(a) neither profit nor loss **(b)** profit of Rs 57
(c) loss of Rs 727 **(d)** loss of Rs 57

7. Simple interest on Rs P at R% per year for T years is:
(a) 100 / (P × R × T) **(b)** P + R + T
(c) P × R / T **(d)** P × R × T / 100

8. The ratio of 250 paise to Rs 9 is:
(a) 5 : 18 **(b)** 9 : 5 **(c)** 5 : 9 **(d)** 250 : 9

Section B — Short answer — 8 × 2 = 16 marks

9. Find 15% of 280.

10. What percentage of 140 is 14?

11. The price of a fan went up from Rs 850 to Rs 935. Find the percentage increase.

12. If 5 pens cost Rs 110, what is the cost of 9 pens?

13. Divide Rs 336 between Ravi and Sita in the ratio 1 : 3.

14. Find the simple interest on Rs 14,500 at 12% per year for 3 years.

15. A bicycle bought for Rs 6,000 is sold for Rs 7,500. Find the profit percent.

16. Are 5, 30, 7 and 43 in proportion? Give a reason.

Section C — Word problems — 4 × 4 = 16 marks

17. In a class of 50 students, 40% are girls. How many boys are there?

18. A school bag is marked at Rs 3,000. The shop gives a discount of 15%. What does it cost after the discount?

19. Neha deposits Rs 5,000 in a bank at 10% simple interest per year. How much will she get back after 2 years?

20. A car travels 270 km in 5 hours at a steady speed. How far will it travel in 9 hours at the same speed?

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Answer key

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Q	Answer	Working
1	**(d) 4 : 5**	divide both by 3
2	**(a) 62%**	31/50 × 100 = 62%
3	**(d) 8**	20/100 × 40
4	**(c) 0.15**	divide by 100
5	**(a) 20 : 35**	multiply both terms by the same number
6	**(d) loss of Rs 57**	SP < CP → loss
7	**(d) P × R × T / 100**	—
8	**(a) 5 : 18**	Rs 9 = 900 paise; 250 : 900
9	**42**	15/100 × 280 = 42
10	**10%**	14/140 × 100 = 10%
11	**10%**	increase = 85; 85/850 × 100 = 10%
12	**Rs 198**	1 pen = 110 ÷ 5 = 22; 9 pens = 198
13	**Ravi Rs 84, Sita Rs 252**	4 parts = 336, 1 part = 84
14	**Rs 5,220**	14500 × 12 × 3 / 100 = 5220
15	**25%**	profit = 1500; 1500/6000 × 100 = 25%
16	**No**	product of extremes 5 × 43 = 215; product of means 30 × 7 = 210
17	**30 boys**	girls = 40% of 50 = 20; boys = 50 − 20 = 30
18	**Rs 2,550**	discount = 15% of 3000 = 450; price = 2550
19	**Rs 6,000**	SI = 5000 × 10 × 2/100 = 1000; amount = 5000 + 1000 = 6000
20	**486 km**	1 hour = 270 ÷ 5 = 54 km; 9 hours = 486 km

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