Proportional Reasoning-2

Standard difficulty · 20 questions · 40 marks · Time: 28 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. A map has a scale of 1 cm : 2 km. Two places are 13 cm apart on the map. The real distance is:
(a) 2 km **(b)** 15 km **(c)** 260 km **(d)** 26 km

2. Rs 3546 is shared in the ratio 7 : 5 : 6. The second share is:
(a) Rs 1,182 **(b)** Rs 986 **(c)** Rs 985 **(d)** Rs 984

3. On a map, a scale of 1 cm : 5 km means:
(a) the map is 5 km wide
(b) 5 cm stands for 1 km
(c) the map is 1 cm wide
(d) 1 cm on the map stands for 5 km on the ground

4. 3 workers can finish a job in 16 days. At the same rate, 2 workers take:
(a) 24 days **(b)** 18 days **(c)** 16 days **(d)** 48 days

5. In a pie chart of 45 people, 26 chose tea. The tea slice measures:
(a) 208° **(b)** 152° **(c)** 26° **(d)** 52°

6. A bus takes 10 hours at 60 km/h. At 120 km/h, the same trip takes:
(a) 7 hours **(b)** 10 hours **(c)** 20 hours **(d)** 5 hours

7. Concrete is mixed as cement : sand : gravel = 1 : 2 : 4. For 14 bags in all, how many are sand?
(a) 7 **(b)** 2 **(c)** 8 **(d)** 4

8. If a : b = 5 : 8 and b : c = 3 : 5, then a : b : c is:
(a) 5 : 8 : 3 **(b)** 5 : 8 : 5 **(c)** 5 : 11 : 5 **(d)** 15 : 24 : 40

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

9. A map has a scale of 1 cm : 5 km. How far apart on the map are two cities 85 km apart?

10. 90 students chose walking (12), bus (52) and cycle (26). Find the angle of each slice of a pie chart.

11. 6 identical taps fill a tank in 10 hours. How long would 15 taps take?

12. Share Rs 3597 among three children in the ratio 2 : 4 : 5.

13. A plan of a room has a scale of 1 : 250. On the plan the room is 8 cm by 10 cm. Find its real length, breadth and floor area.

14. A family budget of Rs 4800 is shown in a pie chart. The food slice is 150°. How much is spent on food?

15. Find the missing number: 11 : 9 = 22 : □

16. A camp has food for 46 people for 20 days. How long will it last for 10 people?

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

17. On a map with scale 1 cm : 5 km, Isha's route goes 13 cm to one town and then 10 cm to the next. How far is the real trip? At 50 km/h, how long does it take?

18. A family's monthly budget of Rs 12000 is shown in a pie chart: rent 120°, food 120°, travel 60°, savings 60°. How much goes to each?

19. 9 masons can build a wall in 18 days. The wall must be finished in 9 days. How many masons are needed, working at the same rate?

20. Concrete is mixed with cement, sand and gravel in the ratio 2 : 3 : 5. How many bags of each are needed for 300 bags in all?

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Answer key

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Q	Answer	Working
1	**(d) 26 km**	13 × 2
2	**(c) Rs 985**	3546 ÷ 18 = 197; × 5
3	**(d) 1 cm on the map stands for 5 km on the ground**	—
4	**(a) 24 days**	3 × 16 = 48 worker-days; 48 ÷ 2
5	**(a) 208°**	26/45 × 360°
6	**(d) 5 hours**	distance 60 × 10 = 600 km; 600 ÷ 120
7	**(d) 4**	14 ÷ 7 × 2
8	**(d) 15 : 24 : 40**	make b the same: 15 : 24 and 24 : 40
9	**17 cm**	85 ÷ 5
10	**48°, 208°, 104°**	each student is 360° ÷ 90 = 4°
11	**4 hours**	6 × 10 = 60 tap-hours; ÷ 15
12	**Rs 654, Rs 1,308, Rs 1,635**	3597 ÷ 11 = 327
13	**20 m by 25 m; 500 m^2**	8 × 250 = 2000 cm; 10 × 250 = 2500 cm
14	**Rs 2,000**	150/360 × 4800
15	**18**	11 × 2 = 22, so 9 × 2
16	**92 days**	920 person-days ÷ 10
17	**115 km; 2.3 hours**	(13 + 10) × 5 = 115; ÷ 50
18	**rent Rs 4,000, food Rs 4,000, travel Rs 2,000, savings Rs 2,000**	amount = angle ÷ 360 × total
19	**18 masons**	9 × 18 = 162 mason-days; ÷ 9
20	**cement 60, sand 90, gravel 150**	300 ÷ 10 = 30

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