

Ratio & Proportion: Medium Practice Paper 8

Q1. The table shows the ingredients for 12 biscuits. How much butter is needed to make 30 of the same biscuits?

Ingredient	For 12 biscuits
Flour	180 g
Butter	100 g
Sugar	60 g

- A. 240 g B. 200 g C. 250 g D. 300 g E. 150 g

Q2. Write 750 g : 3 kg as a ratio in its simplest form.

- A. 1 : 4 B. 4 : 1 C. 1 : 40 D. 3 : 4 E. 1 : 2

Q3. The pictogram shows the vehicles in a car park. What is the ratio of cars to vans, in its simplest form?

Cars ○ ○ ○ ○ ○

Vans ○ ○ ○

Key: ○ 4

- A. 5 : 3 B. 3 : 5 C. 20 : 12 D. 4 : 3 E. 5 : 4

Q4. One train travels 240 km in 3 hours. Another travels 350 km in 5 hours. Which is faster, and by how much?

- A. The first, by 20 km/h
 B. The second, by 10 km/h
 C. The first, by 10 km/h
 D. The second, by 30 km/h
 E. They travel at the same speed

Q5. Eight pencils cost £2.96. How much do 5 of these pencils cost?

- A. £1.75 B. £1.48 C. £2.00 D. £1.85 E. £1.95

Q6. Four pumps empty a tank in 45 minutes. How long would 6 pumps take, working at the same rate?

- A. 67 minutes
B. 35 minutes
C. 30 minutes
D. 40 minutes
E. 25 minutes

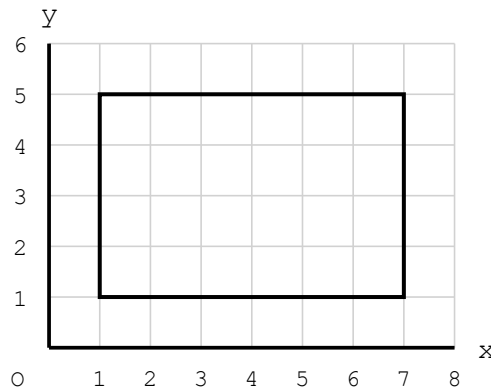
Q7. Three numbers are in the ratio 2 : 3 : 5 and the largest of them is 45. What do the three numbers add up to?

- A. 80 B. 90 C. 100 D. 72 E. 120

Q8. A model bus is made to a scale of 1 : 50. The real bus is 12 m long. How long is the model, in centimetres?

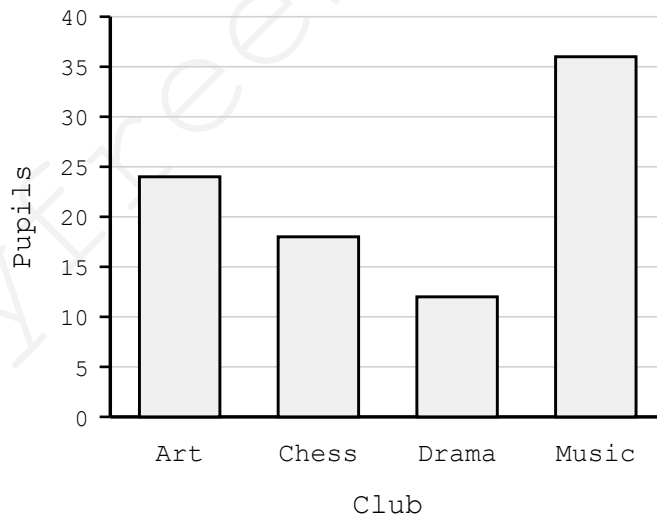
- A. 240 cm B. 60 cm C. 12 cm D. 24 cm E. 6 cm

Q9. The plan shows a room drawn on a grid in which each square stands for 0.5 m. What is the real area of the room?



- A. 12 m² B. 6 m² C. 24 m² D. 3 m² E. 48 m²

Q10. The bar chart shows how many pupils joined each club. What is the ratio of the largest club to the smallest, in its simplest form?



- A. 6 : 2 B. 1 : 3 C. 2 : 1 D. 3 : 2 E. 3 : 1

Q11. A batter is made from milk and flour in the ratio 3 : 4. If 900 ml of milk is used, how much flour is needed?

- A. 800 g B. 675 g C. 1 100 g D. 1 500 g E. 1 200 g

Q12. A printer prints 150 pages in 4 minutes. How many pages does it print in 10 minutes at the same rate?

- A. 300 B. 375 C. 350 D. 400 E. 450

Q13. In a drink the ratio of juice to water is 1 : 3. What percentage of the drink is juice?

- A. 25% B. 33% C. 30% D. 75% E. 20%

Q14. One pound is worth 1.2 euros. A bag costs £45 in London and 60 euros in Paris. Which is cheaper, and by how much in pounds?

- A. They cost the same
B. Paris, by £5
C. London, by £15
D. Paris, by £15
E. London, by £5

Q15. The table shows how many goals three players scored and how many games they played. Who scores at the best rate?

Player	Goals	Games
Ali	12	8
Bea	15	12
Cal	20	16

- A. Bea and Cal are equal best
B. Bea
C. Cal
D. Ali
E. They are all the same