

Ratio & Proportion: Medium Practice Paper 5

Q1. 96 counters are shared in the ratio 1 : 3 : 4. How many counters are in the largest share?

- A. 12 B. 24 C. 32 D. 36 E. 48

Q2. A and B are in the ratio 3 : 8 and B is 35 more than A. What is B?

- A. 21 B. 40 C. 48 D. 56 E. 63

Q3. Six kilograms of cheese cost £48. How much does 2.5 kg of the same cheese cost?

- A. £16 B. £18 C. £20 D. £24 E. £30

Q4. A recipe for 9 people uses 720 g of mince. How much mince is needed for 4 people?

- A. 280 g B. 300 g C. 320 g D. 360 g E. 400 g

Q5. In a car park the ratio of red cars to blue cars is 2 : 5. There are 63 red and blue cars altogether. How many are blue?

- A. 18 B. 27 C. 35 D. 45 E. 50

Q6. A map uses a scale of 1 cm to 2.5 km. Two villages are 6 cm apart on the map. What is the real distance between them?

- A. 8.5 km B. 12 km C. 15 km D. 18 km E. 24 km

Q7. Eight workers build a wall in 15 days. How long would 10 workers take, working at the same rate?

- A. 10 days B. 12 days C. 13 days D. 16 days E. 18 days

Q8. A shop sells one bottle of juice for £1.80 or a pack of three bottles for £5.00. How much is saved by buying a pack of three instead of three single bottles?

- A. 20p B. 30p C. 40p D. 50p E. 60p

Q9. An amount of money is shared in the ratio 5 : 7 and the smaller share is £45. What was the total amount shared?

- A. £63 B. £84 C. £96 D. £108 E. £120

Q10. The sides of a rectangle are in the ratio 2 : 7 and its perimeter is 72 cm. How long is the longer side?

- A. 8 cm B. 16 cm C. 24 cm D. 28 cm E. 36 cm

Q11. 150 g of butter is used to make 12 pieces of shortbread. How much butter is needed for 30 pieces?

- A. 300 g B. 325 g C. 360 g D. 375 g E. 450 g

Q12. A cyclist rides 36 km in 1 hour 30 minutes at a steady speed. How long does it take to ride 60 km at the same speed?

- A. 2 hours
B. 2 hours 15 minutes
C. 2 hours 30 minutes
D. 3 hours
E. 3 hours 30 minutes

Q13. 400 ml of liquid is shared into two glasses in the ratio 3 : 5. How much more liquid is in the fuller glass?

- A. 50 ml B. 100 ml C. 150 ml D. 200 ml E. 250 ml

Q14. Three identical pumps empty a pool in 40 minutes. How long would five of these pumps take?

- A. 18 minutes
- B. 24 minutes
- C. 25 minutes
- D. 30 minutes
- E. 67 minutes

Q15. A fruit drink is made from orange, mango and apple juice in the ratio 3 : 2 : 5. How much mango juice is in 2 litres of the drink?

- A. 200 ml
- B. 300 ml
- C. 400 ml
- D. 600 ml
- E. 1000 ml