

Ratio & Proportion: Medium Practice Paper 3

Q1. 385 raffle tickets are shared between three classes in the ratio 2 : 5 : 4. How many tickets does the class with the smallest share receive?

- A. 35 B. 55 C. 70 D. 140 E. 175

Q2. The ratio of Tom's age to Sara's age is 4 : 7. Sara is 28 years old. How old is Tom?

- A. 11 B. 14 C. 16 D. 18 E. 21

Q3. A 3 kg bag of rice costs £4.20. At the same price per kilogram, how much does 5 kg cost?

- A. £5.60 B. £6.30 C. £7.00 D. £7.40 E. £8.40

Q4. A map has a scale of 1 : 50 000. Two towns are 12 km apart. How far apart are they on the map?

- A. 6 cm B. 12 cm C. 24 cm D. 30 cm E. 60 cm

Q5. Pink paint is made by mixing white and red paint in the ratio 5 : 2. How much red paint is needed to make 42 litres of pink paint?

- A. 6 litres B. 10 litres C. 12 litres D. 14 litres E. 30 litres

Q6. Four people can paint a house in 9 days. How long would 6 people take, working at the same rate?

- A. 4 days B. 5 days C. 6 days D. 7 days E. 13.5 days

Q7. A soup recipe for 4 people uses 600 ml of stock. How much stock is needed for 7 people?

- A. 900 ml B. 1000 ml C. 1050 ml D. 1200 ml E. 1500 ml

Q8. The sides of a rectangle are in the ratio 3 : 4 and its area is 192 cm^2 . How long is the shorter side?

- A. 8 cm B. 12 cm C. 16 cm D. 24 cm E. 48 cm

Q9. A photocopier prints 36 pages every minute. How many pages does it print in 2 minutes 30 seconds?

- A. 54 B. 72 C. 80 D. 90 E. 108

Q10. £1 is worth \$1.25. How many pounds would you exchange to get \$100?

- A. £75 B. £80 C. £85 D. £100 E. £125

Q11. Two numbers are in the ratio 5 : 8 and their sum is 91. What is the smaller number?

- A. 7 B. 28 C. 35 D. 40 E. 56

Q12. Sweets are shared between three children in the ratio 3 : 4 : 5. The child with the largest share gets 20 sweets. How many sweets are there altogether?

- A. 36 B. 40 C. 44 D. 48 E. 60

Q13. Three litres of paint cover a wall of 15 m^2 . How many litres are needed to cover 40 m^2 ?

- A. 5 litres B. 6 litres C. 8 litres D. 9 litres E. 12 litres

Q14. On a farm the ratio of chickens to ducks is 7 : 3 and there are 120 birds altogether. How many more chickens are there than ducks?

- A. 12 B. 36 C. 48 D. 60 E. 84

Q15. A train travels 210 km in 3 hours at a steady speed. How long does it take to travel 350 km at the same speed?

- A. 4 hours
B. 4 hours 30 minutes
C. 5 hours
D. 5 hours 30 minutes
E. 6 hours