Ratio & Proportion: Medium Practice Paper 4

Q1. £150 is shared between two people in the ratio 3 : 7. What is the difference between the two shares?

A. £15 B. £45 C. £60 D. £75 E. £105

Q2. Two quantities are in the ratio 5 : 6. The second quantity is 42. What is the first quantity?

A. 30 B. 35 C. 36 D. 41 E. 50

Q3. A pack of 8 batteries costs £6.40 and a pack of 12 costs £9.00. How much cheaper is each battery in the larger pack?

A. 2p B. 4p C. 5p D. 8p E. 10p

Q4. A recipe uses 300 g of flour to make 18 biscuits. How much flour is needed to make 24 biscuits?

A. 350 g B. 375 g C. 400 g D. 420 g E. 450 g

Q5. In a club the ratio of girls to boys is 5 : 4. There are 12 more girls than boys. How many members are in the club altogether?

A. 36 B. 72 C. 96 D. 108 E. 120

Q6. A model of a building is made to a scale of 1 : 200. The model is 15 cm tall. How tall is the real building?

A. 3 m B. 15 m C. 20 m D. 30 m E. 300 m

Q7. Five gardeners cut a large lawn in 12 hours. How long would 10 gardeners take, working at the same rate?

A. 4 hours B. 6 hours C. 7 hours D. 8 hours E. 24 hours

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Q8. Apples cost £1.80 per kilogram. How much do 2.5 kg of apples cost?

A. £3.60 B. £4.05 C. £4.20 D. £4.50 E. £5.40

Q9. Amy, Ben and Chris have stamps in the ratio 2 : 3 : 5. Chris has 45 stamps. How many does Amy have?

A. 9 B. 15 C. 18 D. 27 E. 30

Q10. Three angles that lie on a straight line are in the ratio 2 : 3 : 4. What is the largest of these angles?

A. 20° B. 40° C. 60° D. 80° E. 90°

Q11. A recipe for 20 pancakes uses 500 ml of milk. How much milk is needed for 8 pancakes?

A. 150 ml B. 180 ml C. 200 ml D. 240 ml E. 250 ml

Q12. A bus travels 96 km in 1 hour 30 minutes at a steady speed. How far does it travel in 4 hours?

A. 192 km B. 224 km C. 240 km D. 256 km E. 288 km

Q13. 78 marbles are shared in the ratio 4 : 9. How many marbles are in the larger share?

A. 24 B. 36 C. 48 D. 54 E. 60

Q14. At a bureau de change, 12 euros cost £10. How many euros would £45 buy?

A. 37.50 B. 48 C. 50 D. 54 E. 57

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Q15. A 1.2 litre drink is made from juice and water in the ratio 1 : 5. How much water does it contain?

A. 200 ml B. 240 ml C. 600 ml D. 960 ml E. 1000 ml

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