Ratio & Proportion: Medium Practice Paper 2

Q1. 120 counters are shared in the ratio 1 : 3 : 4. How many counters are in the largest share?

A. 15 B. 30 C. 45 D. 60 E. 75

Q2. A and B are in the ratio 4 : 7. If A is 28, what is B?

A. 16 B. 31 C. 42 D. 49 E. 56

Q3. A 400 g box of cereal costs £1.60 and a 1 kg box costs £3.80. How much cheaper is 100 g from the larger box?

A. 1p B. 2p C. 4p D. 5p E. 20p

Q4. A recipe for 12 muffins uses 180 g of sugar. How much sugar is needed for 30 muffins?

A. 360 g B. 400 g C. 420 g D. 450 g E. 540 g

Q5. In a choir the ratio of men to women is 3 : 5. There are 40 women. How many people are in the choir altogether?

A. 48 B. 56 C. 64 D. 72 E. 80

Q6. A scale drawing uses 1 cm to represent 4 m. A room is 14 m long. How long is the room on the drawing?

A. 2.8 cm B. 3.5 cm C. 4 cm D. 5.6 cm E. 10 cm

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Q7. Six taps fill a tank in 20 minutes. How long would 8 taps take to fill the same tank?

A. 12 minutes

B. 15 minutes

C. 18 minutes

D. 22 minutes

E. 27 minutes

Q8. Petrol costs £1.40 per litre. How many litres can be bought for £35?

A. 20 B. 22 C. 25 D. 28 E. 49

Q9. Three friends share £84 in the ratio 1 : 2 : 4. How much does the friend with the middle share receive?

A. £12 B. £21 C. £24 D. £28 E. £48

Q10. In a bookshop the ratio of hardbacks to paperbacks is 2 : 9. There are 198 paperbacks. How many hardbacks are there?

A. 22 B. 36 C. 44 D. 88 E. 99

Q11. A cake mixture uses flour, butter and sugar in the ratio 6 : 4 : 3. If 900 g of flour is used, how much sugar is needed?

A. 300 g B. 400 g C. 450 g D. 600 g E. 675 g

Q12. The three angles of a triangle are in the ratio 1 : 2 : 3. What is the largest angle?

A. 30° B. 45° C. 60° D. 90° E. 120°

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Q13. A car uses 8 litres of fuel to travel 100 km. How much fuel does it use to travel 250 km?

A. 16 litres B. 18 litres C. 20 litres D. 24 litres E. 31 litres

Q14. Two numbers are in the ratio 9 : 5 and their difference is 28. What is the larger number?

A. 35 B. 42 C. 56 D. 63 E. 70

Q15. In a class of 30 pupils, the ratio of those who walk to school to those who do not is 3 : 7. How many pupils walk to school?

A. 3 B. 7 C. 9 D. 10 E. 21

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