Ratio & Proportion: Medium Practice Paper 1

Q1. £90 is shared between three friends in the ratio 2 : 3 : 4. How much does the friend with the largest share receive?

A. £10 B. £20 C. £30 D. £40 E. £45

Q2. Two numbers are in the ratio 5 : 3 and their difference is 14. What is the smaller number?

A. 7 B. 21 C. 28 D. 35 E. 42

Q3. A 6-pack of juice cartons costs £2.70 and a 10-pack costs £4.20. How much cheaper is one carton from the 10-pack than one carton from the 6-pack?

A. 1p B. 2p C. 3p D. 5p E. 8p

Q4. A recipe for 6 people uses 450 g of pasta. How much pasta is needed for 10 people?

A. 600 g B. 650 g C. 700 g D. 750 g E. 900 g

Q5. In a box the ratio of red counters to blue counters is 3 : 5. There are 24 more blue counters than red counters. How many counters are there altogether?

A. 48 B. 64 C. 72 D. 88 E. 96

Q6. A map has a scale of 1 : 25 000. Two churches are 4 cm apart on the map. What is the real distance between them?

A. 0.25 km B. 0.5 km C. 1 km D. 2.5 km E. 10 km

Q7. £1 is worth €1.15. How many euros would you get for £40?

A. €34.78 B. €41.15 C. €44 D. €46 E. €48

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Q8. Three painters take 8 hours to paint a fence. How long would 4 painters take, working at the same rate?

A. 4 hours B. 6 hours C. 6.5 hours D. 9 hours E. 10 hours

Q9. In a school 2/5 of the pupils are boys and the rest are girls. What is the ratio of boys to girls?

A. 2 : 5 B. 5 : 2 C. 2 : 3 D. 3 : 2 E. 1 : 4

Q10. 63 sweets are shared in the ratio 2 : 3 : 4. How many sweets are in the middle share?

A. 7 B. 14 C. 21 D. 24 E. 28

Q11. A car travels 150 km in 2 hours at a steady speed. How far does it travel in 5 hours at the same speed?

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

Q12. The length and width of a rectangle are in the ratio 5 : 2. The perimeter is 70 cm. What is the length?

A. 10 cm B. 14 cm C. 20 cm D. 25 cm E. 35 cm

Q13. A drink is made from juice and water in the ratio 2 : 7. How much juice is there in 900 ml of the drink?

A. 100 ml B. 150 ml C. 200 ml D. 250 ml E. 700 ml

Q14. Five machines make 400 items in one hour. How many items would 8 machines make in 30 minutes, working at the same rate?

A. 240 B. 320 C. 400 D. 480 E. 640

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Q15. Two numbers are in the ratio 7 : 4 and their sum is 66. What is the larger number?

A. 24 B. 28 C. 36 D. 42 E. 48

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