Ratio & Proportion: Medium Practice Paper 6

Q1. The table shows a recipe for 4 people. How much rice is needed for 10 people?

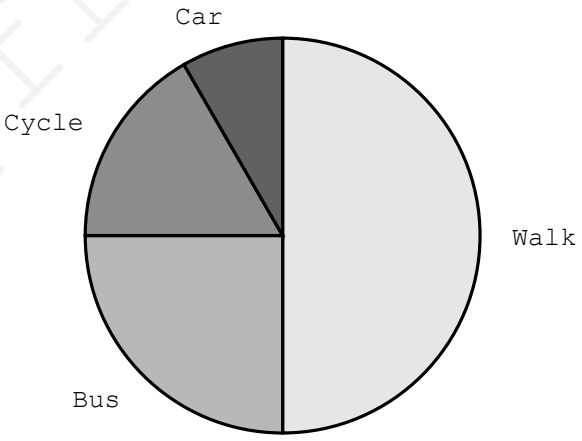
Ingredient	For 4 people
Rice	200 g
Stock	500 ml
Peas	120 g

A. 400 g *B.* 500 g *C.* 480 g *D.* 550 g *E.* 320 g

Q2. Write 40 cm : 2 m as a ratio in its simplest form.

A. 5 : 1 *B.* 1 : 5 *C.* 1 : 50 *D.* 2 : 5 *E.* 1 : 4

Q3. The pie chart shows how 48 pupils travel to school. What is the ratio of those who walk to those who cycle, in its simplest form?



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

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Q4. Each of these mixes is red paint to white paint. Which mix has the greatest proportion of red paint?

A. 1 : 2 *B.* 2 : 3 *C.* 3 : 5 *D.* 3 : 4 *E.* 4 : 7

Q5. The table shows the cost of ribbon. How much does 7 m of the same ribbon cost?

Length	Cost
2 m	£1.50
5 m	£3.75

A. £4.50 *B.* £5.00 *C.* £5.25 *D.* £5.75 *E.* £6.00

Q6. Two gear wheels turn together. The small wheel has 8 teeth and the large wheel has 20 teeth. When the small wheel turns 15 times, how many times does the large wheel turn?

A. 6 *B.* 12 *C.* 5 *D.* 8 *E.* 37

Q7. In a bag the ratio of green beads to yellow beads is 3 : 5. What fraction of the beads are green?

A. 3/8 *B.* 3/5 *C.* 5/8 *D.* 1/3 *E.* 2/5

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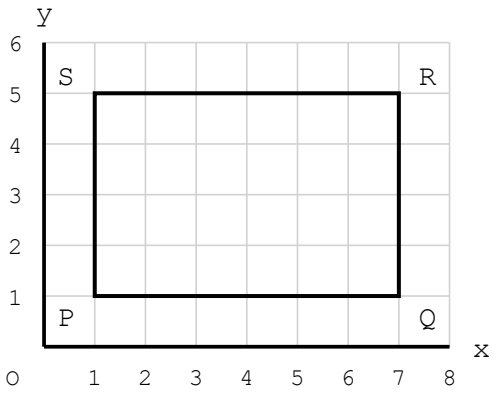
Q8. The plan shows a garden drawn on a grid in which each square stands for 2 m. What is the real length of the side PQ?



A. 8 m *B.* 6 m *C.* 24 m *D.* 12 m *E.* 3 m

Q9. The table shows exchange rates for one pound. How many dollars would £60 buy?

Currency	**For £1**
Euros	1.15
Dollars	1.30
Yen	190

A. 75 dollars

B. 69 dollars

C. 46 dollars

D. 80 dollars

E. 78 dollars

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Q10. A tap fills 5 litres in 40 seconds. How long does it take to fill 12 litres at the same rate?

A. 96 seconds

B. 90 seconds

C. 84 seconds

D. 100 seconds

E. 120 seconds

Q11. A journey takes 3 hours at a steady 60 km/h. How long would the same journey take at a steady 45 km/h?

A. 2 hours 15 minutes

B. 3 hours 45 minutes

C. 4 hours

D. 4 hours 30 minutes

E. 5 hours

Q12. Two brothers share a prize in the ratio 3 : 5. The older brother receives £120. What was the whole prize?

A. £320 *B.* £192 *C.* £200 *D.* £72 *E.* £360

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Q13. The table shows three bottles of the same shampoo. Which bottle is the best value for money?

Bottle	Size	Price
Small	200 ml	£2.40
Medium	400 ml	£4.40
Large	500 ml	£5.75

A. The small and large bottles are equal

B. The small bottle

C. The large bottle

D. The medium bottle

E. They are all the same value

Q14. In a class the ratio of left-handed to right-handed pupils is 1 : 4. What percentage of the class is left-handed?

A. 80% *B.* 25% *C.* 16% *D.* 10% *E.* 20%

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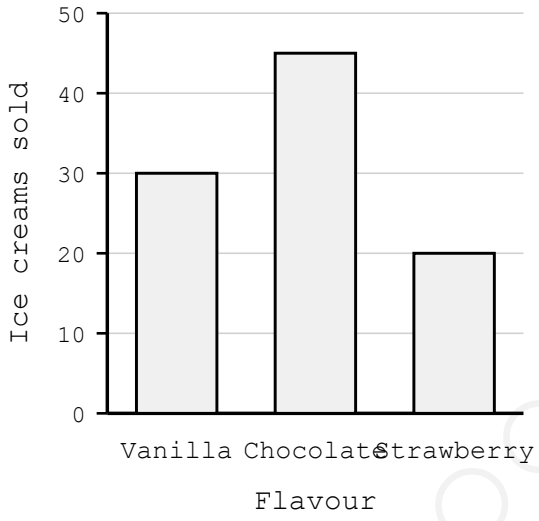
Q15. The bar chart shows how many ice creams of each flavour were sold. What is the ratio of strawberry sold to vanilla sold, in its simplest form?



A. 4 : 9 *B.* 3 : 2 *C.* 2 : 3 *D.* 1 : 2 *E.* 2 : 5

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