2.19 Speed Drills: Ratio, Proportion and Scaling: Test Pack

Total Marks

GL ASSESSMENT EP.M20 · Calculators not allowed · about 15 minutes

Name: _____ Date: ____ / ____ / _____

A timed speed-drill pack for building fast, accurate ratio and proportion skills - the fluency with simplifying ratios, sharing amounts fairly and scaling recipes and prices that keeps working quick enough for the real GL Assessment 11+ maths paper. Complete each block against its own 5-minute target without a calculator, writing only the final answer in the answer grid provided; no working space is given or needed. There are 4 blocks of 20 one-mark, answer-only questions: Block 1, simplifying ratios and finding equivalent ratios; Block 2, sharing an amount in a given ratio; Block 3, the unitary method and scaling recipes; Block 4, a mixed speed round including quick best-buy comparisons. Each block carries its own Target: 5 minutes heading; time yourself (or ask an adult to time you) and note how close you get to the target on each block.

1 Block 1: Simplifying ratios and equivalent ratios - Target: 5 minutes. Simplify the ratio 4 : 8 to its simplest form.

(1)

2 Complete the missing number: 6 : 7 = 24 : ___

(1)

3 Simplify the ratio 32 : 40 to its simplest form.

(1)

4 A recipe uses flour and sugar in the ratio 20 : 12. Simplify this ratio.

(1)

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5 A length of 2.5 m is compared with a length of 40 cm. Write this as a ratio in its simplest whole-number form.

(1)

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6 Share £48 between Leo and Fatima in the ratio 5 : 7. Find how much Fatima gets.

(1)

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7 A bag of 84 sweets is shared between Emily and Harry in the ratio 5 : 2. Find how many sweets Emily gets.

(1)

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8 A sum of money is shared between Ade and Ben in the ratio 5 : 9. Ben receives £60 more than Ade. Find Ade's share.

(1)

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9 A recipe for 4 people needs 200 g of rice. Find how many grams of rice are needed for 1 person.

(1)

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10 A recipe for 4 people needs 500 ml of milk. Find how much milk is needed for 10 people.

(1)

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11 A recipe for 8 people uses 400 g of sugar. Find how much sugar is needed for 3 people.

(1)

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12 A recipe serves 4 people and uses 320 g of chocolate. Priya has 240 g of chocolate. Using the same ratio, find how many people she can serve exactly.

(1)

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13 Simplify the ratio 25 : 60 to its simplest form.

(1)

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14 A car uses 5 litres of petrol to travel 60 km. Find how far it can travel on 8 litres.

(1)

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15 A 2 litre bottle of squash costs £3.00. A 3 litre bottle costs £4.20. State which bottle is better value per litre.

(1)

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16 9 identical erasers cost £3.60. Find the cost of 4 erasers.

(1)

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Mark scheme · 2.19 Speed Drills: Ratio, Proportion and Scaling: Test Pack

Question 1

1 : 2 oe cao **B1**

Answer: 1 : 2

Question 2

28 cao **B1**

Answer: 28

Question 3

4 : 5 oe cao **B1**

Answer: 4 : 5

Question 4

5 : 3 oe cao **B1**

Answer: 5 : 3

Question 5

25 : 4 oe cao **B1**

Answer: 25 : 4

Question 6

£28 cao **B1**

Answer: £28

Question 7

60 cao **B1**

Answer: 60

Question 8

£75 cao **B1**

Answer: £75

Question 9

50 g cao **B1**

Answer: 50 g

Question 10

1250 ml cao **B1**

Answer: 1250 ml

Question 11

150 g cao **B1**

Answer: 150 g

Question 12

3 cao **B1**

Answer: 3

Question 13

5 : 12 oe cao **B1**

Answer: 5 : 12

Question 14

96 km cao **B1**

Answer: 96 km

Question 15

the 3 litre bottle cao **B1**

Answer: the 3 litre bottle

Question 16

£1.60 cao **B1**

Answer: £1.60

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