2.19-2 Speed Drills: Ratio, Proportion and Scaling Set 2: Test Pack

Total Marks

GL ASSESSMENT EP.M92 · 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. This is the second set in the series, with a fresh set of numbers and contexts throughout. 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 6 : 10 to its simplest form.

(1)

2 Complete the missing number: 3 : 7 = ___ : 49

(1)

3 A recipe uses butter and flour in the ratio 18 : 24. Simplify this ratio.

(1)

4 A length of 3.2 m is compared with a length of 80 cm. Write this as a ratio in its simplest whole-number form.

(1)

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5 Share £60 between Jamal and Freya in the ratio 3 : 7. Find how much Freya gets.

(1)

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6 Share 110 marbles between three friends in the ratio 2 : 3 : 6. Find the size of the largest share.

(1)

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7 A bag of 96 sweets is shared between Owen and Lily in the ratio 7 : 5. Find how many sweets Owen gets.

(1)

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8 A sum of money is shared between Farah and Ola in the ratio 3 : 8. Ola receives £45 more than Farah. Find Farah's share.

(1)

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9 A recipe for 5 people needs 250 g of rice. Find how many grams of rice are needed for 1 person.

(1)

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10 A recipe for 5 people needs 400 ml of milk. Find how much milk is needed for 8 people.

(1)

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11 A recipe for 10 people uses 500 g of sugar. Find how much sugar is needed for 4 people.

(1)

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12 A recipe for 6 people uses 1.8 kg of potatoes. Find how many kilograms are needed for 4 people.

(1)

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13 A recipe serves 5 people and uses 400 g of chocolate. Kofi has 320 g of chocolate. Using the same ratio, find how many people he can serve exactly.

(1)

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14 Simplify the ratio 35 : 60 to its simplest form.

(1)

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15 A car uses 4 litres of petrol to travel 52 km. Find how far it can travel on 9 litres.

(1)

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16 7 identical erasers cost £2.10. Find the cost of 5 erasers.

(1)

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Mark scheme · 2.19-2 Speed Drills: Ratio, Proportion and Scaling Set 2: Test Pack

Question 1

3 : 5 cao **B1**

Answer: 3 : 5

Question 2

21 cao **B1**

Answer: 21

Question 3

3 : 4 cao **B1**

Answer: 3 : 4

Question 4

4 : 1 cao **B1**

Answer: 4 : 1

Question 5

£42 cao **B1**

Answer: £42

Question 6

60 cao **B1**

Answer: 60

Question 7

56 cao **B1**

Answer: 56

Question 8

£27 cao **B1**

Answer: £27

Question 9

50 g cao **B1**

Answer: 50 g

Question 10

640 ml cao **B1**

Answer: 640 ml

Question 11

200 g cao **B1**

Answer: 200 g

Question 12

1.2 kg cao **B1**

Answer: 1.2 kg

Question 13

4 cao **B1**

Answer: 4

Question 14

7 : 12 cao **B1**

Answer: 7 : 12

Question 15

117 km cao **B1**

Answer: 117 km

Question 16

£1.50 cao **B1**

Answer: £1.50

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