2.19-2 Speed Drills: Ratio, Proportion and Scaling Set 2: 10-minute Pack

Total Marks

GL ASSESSMENT EP.M92 · Calculators not allowed · about 10 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 Simplify the ratio 28 : 42 to its simplest form.

(1)

2 Simplify the ratio 16 : 40 to its simplest form.

(1)

3 Complete the missing number: 5 : 6 = 30 : ___

(1)

4 Complete the missing number: 8 : 9 = 40 : ___

(1)

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5 Complete the missing number: 2 : 9 = ___ : 54

(1)

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6 Complete the missing number: 7 : 12 = 63 : ___

(1)

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7 Simplify the ratio 4.2 : 5.6 to its simplest whole-number form.

(1)

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8 Simplify the ratio 36 : 54 : 90 to its simplest form.

(1)

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9 Simplify the ratio 9 : 3 to its simplest form.

(1)

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10 Block 2: Sharing in a ratio - Target: 5 minutes. Share 28 conkers between Priya and Sam in the ratio 1 : 3. Find how many conkers Priya gets.

(1)

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11 Share £18 between Noah and Ella in the ratio 2 : 7. Find how much Noah gets.

(1)

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Mark scheme · 2.19-2 Speed Drills: Ratio, Proportion and Scaling Set 2: 10-minute Pack

Question 1

2 : 3 cao **B1**

Answer: 2 : 3

Question 2

2 : 5 cao **B1**

Answer: 2 : 5

Question 3

36 cao **B1**

Answer: 36

Question 4

45 cao **B1**

Answer: 45

Question 5

12 cao **B1**

Answer: 12

Question 6

108 cao **B1**

Answer: 108

Question 7

3 : 4 cao **B1**

Answer: 3 : 4

Question 8

2 : 3 : 5 cao **B1**

Answer: 2 : 3 : 5

Question 9

3 : 1 cao **B1**

Answer: 3 : 1

Question 10

7 cao **B1**

Answer: 7

Question 11

£4 cao **B1**

Answer: £4

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