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

Total Marks

GL ASSESSMENT EP.M20 · 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. 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 Complete the missing number: 2 : 5 = ___ : 35

(1)

2 Simplify the ratio 27 : 45 to its simplest form.

(1)

3 Complete the missing number: 5 : 9 = 45 : ___

(1)

4 Complete the missing number: 4 : 11 = ___ : 44

(1)

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5 Simplify the ratio 36 : 48 to its simplest form.

(1)

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6 Simplify the ratio 3.6 : 4.8 to its simplest whole-number form.

(1)

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7 Simplify the ratio 42 : 56 : 70 to its simplest form.

(1)

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8 Simplify the ratio 10 : 2 to its simplest form.

(1)

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9 Block 2: Sharing in a ratio - Target: 5 minutes. Share 24 marbles between Aisha and Ben in the ratio 1 : 3. Find how many marbles Aisha gets.

(1)

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10 Share £15 between Tom and Priya in the ratio 2 : 3. Find how much Tom gets.

(1)

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11 500 g of rice costs £1.50, and 750 g of rice costs £2.10. State which pack is better value.

(1)

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

Question 1

14 cao **B1**

Answer: 14

Question 2

3 : 5 oe cao **B1**

Answer: 3 : 5

Question 3

81 cao **B1**

Answer: 81

Question 4

16 cao **B1**

Answer: 16

Question 5

3 : 4 oe cao **B1**

Answer: 3 : 4

Question 6

3 : 4 oe cao **B1**

Answer: 3 : 4

Question 7

3 : 4 : 5 oe cao **B1**

Answer: 3 : 4 : 5

Question 8

5 : 1 oe cao **B1**

Answer: 5 : 1

Question 9

6 cao **B1**

Answer: 6

Question 10

£6 cao **B1**

Answer: £6

Question 11

the 750 g pack cao **B1**

Answer: the 750 g pack

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