2.18 Speed Drills: Fractions and Percentages of Amounts: 30-minute Pack

Total Marks

GL ASSESSMENT EP.M19 · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

A timed speed-drill pack for building fast, accurate recall of fractions and percentages of amounts - the mental fluency 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, unit fractions of an amount (1/2, 1/3, 1/4 and similar); Block 2, non-unit fractions of an amount (3/4, 2/5, 5/6 and similar); Block 3, percentages of amounts built from the 50%, 25%, 10%, 5% and 1% building blocks; Block 4, a mixed block of fractions and percentages against the clock, including quick comparisons such as deciding whether a fraction or a percentage of the same amount is bigger. 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 Work out 2/3 of 9.

(1)

2 Work out 3/4 of 40.

(1)

3 Work out 3/5 of 40.

(1)

4 Work out 2/3 of 30.

(1)

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5 Work out 4/5 of 45.

(1)

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6 Work out 5/6 of 36.

(1)

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7 Work out 1/4 of 20.

(1)

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8 Work out 2/9 of 63.

(1)

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9 Work out 5/8 of 64.

(1)

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10 Work out 7/10 of 50.

(1)

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11 Work out 4/9 of 63.

(1)

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12 Work out 3/7 of 84.

(1)

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13 Work out 5/12 of 72.

(1)

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14 Work out 2/3 of 51.

(1)

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15 Work out 7/8 of 96.

(1)

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16 Work out 1/4 of 40.

(1)

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17 Work out 7/12 of 144.

(1)

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18 Block 3: Percentages of amounts (50%, 25%, 10%, 5%, 1% building blocks) - Target: 5 minutes. Work out 50% of 20.

(1)

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19 Work out 25% of 40.

(1)

20 Work out 10% of 90.

(1)

21 Work out 50% of 64.

(1)

22 Work out 1% of 300.

(1)

23 Work out 25% of 120.

(1)

24 Work out 20% of 45.

(1)

25 Work out 1/3 of 30.

(1)

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26 Work out 15% of 40.

(1)

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27 Work out 30% of 70.

(1)

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28 Work out 35% of 60.

(1)

---

29 Work out 45% of 80.

(1)

---

30 Work out 65% of 40.

(1)

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31 Work out 75% of 64.

(1)

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32 Which is bigger: 3/4 of 40 or 70% of 40?

(1)

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Mark scheme · 2.18 Speed Drills: Fractions and Percentages of Amounts: 30-minute Pack

Question 1

6 cao **B1**

Answer: 6

Question 2

30 cao **B1**

Answer: 30

Question 3

24 cao **B1**

Answer: 24

Question 4

20 cao **B1**

Answer: 20

Question 5

36 cao **B1**

Answer: 36

Question 6

30 cao **B1**

Answer: 30

Question 7

5 cao **B1**

Answer: 5

Question 8

14 cao **B1**

Answer: 14

Question 9

40 cao **B1**

Answer: 40

Question 10

35 cao **B1**

Answer: 35

Question 11

28 cao **B1**

Answer: 28

Question 12

36 cao **B1**

Answer: 36

Question 13

30 cao **B1**

Answer: 30

Question 14

34 cao **B1**

Answer: 34

Question 15

84 cao **B1**

Answer: 84

Question 16

10 cao **B1**

Answer: 10

Question 17

84 cao **B1**

Answer: 84

Question 18

10 cao **B1**

Answer: 10

Question 19

10 cao **B1**

Answer: 10

Question 20

9 cao **B1**

Answer: 9

Question 21

32 cao **B1**

Answer: 32

Question 22

3 cao **B1**

Answer: 3

Question 23

30 cao **B1**

Answer: 30

Question 24

9 cao **B1**

Answer: 9

Question 25

10 cao **B1**

Answer: 10

Question 26

6 cao **B1**

Answer: 6

Question 27

21 cao **B1**

Answer: 21

Question 28

21 cao **B1**

Answer: 21

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Question 29

36 cao **B1**

Answer: 36

Question 30

26 cao **B1**

Answer: 26

Question 31

48 cao **B1**

Answer: 48

Question 32

3/4 of 40 cao (30 > 28) **B1**

Answer: 3/4 of 40

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