2.29-3 Speed Drills: Mixed Methods Set 3: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

How to use this speed drills pack

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This pack is a timed numeracy fluency drill for 11+ preparation, styled on GL Assessment speed and accuracy conventions. It is split into 4 blocks of 20 answer-only questions: Block A (Number Foundations), Block B (Fractions, Decimals and Percentages), Block C (Ratio, Proportion and Algebra) and Block D (Measures, Money and Quick Problems). Each block has a target of 5 minutes for all 20 questions (roughly 15 seconds per question), so pupils should write the answer only, with no working shown, in the space next to each question. No calculator is allowed. The mark scheme at the back is presented as a quick-check answer grid, one mark per question, so pupils or parents can mark the drill in under a minute and time future attempts to track improvement.

1 Work out: 125 / 5

(1)

2 Work out: 13 x 6

(1)

3 Work out: 144 / 12

(1)

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4 Work out: 100 - 37

(1)

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5 Work out: 2 x (7 + 3)

(1)

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6 Work out: 92 - 56

(1)

---

7 Write 0.6 as a fraction in its simplest form.

(1)

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8 Find 10% of 450.

(1)

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9 Find 1/5 of 60.

(1)

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10 Work out: 0.35 + 0.4

(1)

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11 Work out: 3.6 - 1.8

(1)

12 Work out: 7 x 8

(1)

13 Work out: 1/2 + 1/4

(1)

14 Work out: 2/3 x 3/5

(1)

15 Work out: 5/6 - 1/3

(1)

16 Find 60% of 90.

(1)

17 Write 0.125 as a fraction in its simplest form.

(1)

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18 Find 3/8 of 64.

(1)

---

19 Work out: 96 / 8

(1)

---

20 5 pens cost £2. Find the cost of 15 pens.

(1)

---

21 Simplify the ratio 24:36.

(1)

---

22 If y = 7, find the value of 2y - 3.

(1)

---

23 Work out: 6^2

(1)

---

24 Solve: x/4 = 6

(1)

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25 Solve: $2x - 5 = 11$

(1)

---

26 Find the next term in the sequence: 3, 7, 11, 15, ...

(1)

---

27 Find an expression for the nth term of the sequence: 5, 8, 11, 14, ...

(1)

---

28 If $a = 3$ and $b = 4$, find the value of $a^2 + b^2$.

(1)

---

29 Write the ratio 45:30 in its simplest form.

(1)

---

30 £40 is divided in the ratio 3:5. Find the larger share.

(1)

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31 BLOCK D: MEASURES, MONEY & QUICK PROBLEMS - TARGET: 5 MINUTES FOR ALL 20

How many minutes are there in 2.5 hours?

(1)

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32 Convert 3.2 kg to grams.

(1)

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Mark scheme · 2.29-3 Speed Drills: Mixed Methods Set 3: 30-minute Pack

Question 1

25 cao **B1**

Answer: 25

Question 2

78 cao **B1**

Answer: 78

Question 3

12 cao **B1**

Answer: 12

Question 4

63 cao **B1**

Answer: 63

Question 5

20 cao **B1**

Answer: 20

Question 6

36 cao **B1**

Answer: 36

Question 7

3/5 cao **B1**

Answer: 3/5

Question 8

45 cao **B1**

Answer: 45

Question 9

12 cao **B1**

Answer: 12

Question 10

0.75 cao **B1**

Answer: 0.75

Question 11

1.8 cao **B1**

Answer: 1.8

Question 12

56 cao **B1**

Answer: 56

Question 13

3/4 cao **B1**

Answer: 3/4

Question 14

2/5 cao **B1**

Answer: 2/5

Question 15

1/2 cao **B1**

Answer: 1/2

Question 16

54 cao **B1**

Answer: 54

Question 17

1/8 cao **B1**

Answer: 1/8

Question 18

24 cao **B1**

Answer: 24

Question 19

12 cao **B1**

Answer: 12

Question 20

£6 cao **B1**

Answer: £6

Question 21

2:3 cao **B1**

Answer: 2:3

Question 22

11 cao **B1**

Answer: 11

Question 23

36 cao **B1**

Answer: 36

Question 24

x = 24 cao **B1**

Answer: x = 24

Question 25

x = 8 cao **B1**

Answer: x = 8

Question 26

19 cao **B1**

Answer: 19

Question 27

3n + 2 oe **B1**

Answer: 3n + 2

Question 28

25 cao **B1**

Answer: 25

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Question 29

3:2 cao **B1**

Answer: 3:2

Question 30

£25 cao **B1**

Answer: £25

Question 31

150 minutes cao **B1**

Answer: 150 minutes

Question 32

3200g cao **B1**

Answer: 3200g

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