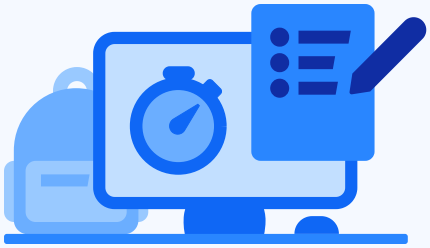
Atom Home

GL Grammar 11+ Maths Paper



About this test

This is a practice paper designed to familiarise your child with the types of questions they will see in a GL Grammar 11+ Maths Paper exam.

What you'll need

- Printed practice paper and answer sheet
- Pencil
- Rubber
- Timer

Taking the test

Your child should mark their answers on the answer sheet, not in the question paper. This is good practice for the real exam which will have a separate answer sheet like this.

On the answer sheet, your child should record their answers by drawing a clear line through the answer box with a pencil. Mistakes should be rubbed out and not crossed out.

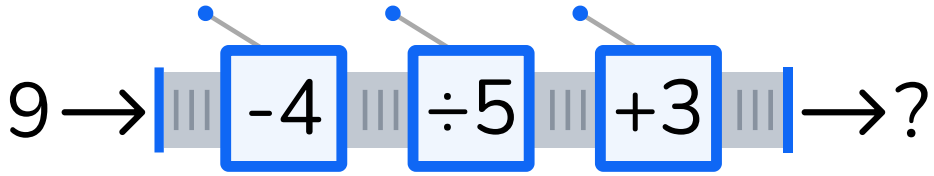
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Read the following carefully:

1. This test has been designed to help you practise the types of questions you will see in a GL Grammar 11+ Maths Paper exam.
2. You have **50 minutes** to complete this paper.
3. Read each question carefully before moving onto the next one.
4. Answers should be marked on the **answer sheets** provided. If you make a mistake, rub it out as completely as you can and mark your new answer.
5. For any workings, use a separate piece of paper.
6. You may find some of the questions difficult. If you cannot do a question, **do not waste time on it but go on to the next**. If you are not sure of an answer, choose the one you think is best.
7. Work as quickly and as carefully as you can.

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1 Look at this number machine.



Which number will come out?

A 10 **B** 12 **C** 2 **D** 9 **E** 4

---

2 What is the value of the digit 4 in $4,357,201$?

A 4 millions
B 4 ten thousands
C 4 thousands
D 4 tens
E 4 hundred thousands

---

3 Which of these numbers is a factor of 64?

A 12 **B** 6 **C** 8 **D** 5 **E** 7

Please go on to the next page »

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4 This is a 'magic square' where the numbers in the rows and columns follow a logical sequence.

5	10	?
10	15	20
15	20	25

What is the missing number?

A 10 **B** 25 **C** 15 **D** 20 **E** 5

---

5 Complete the addition below.

Column Addition

$$\begin{array}{r} 1\ 4\ 5\ 6\ 2\ 7 \\ +\ 2\ 3\ 5\ 4\ 8\ 7 \\ \hline \\ \hline \end{array}$$

A 381,114 **B** 381,014 **C** 381,115 **D** 380,114 **E** 380,113

Please go on to the next page »

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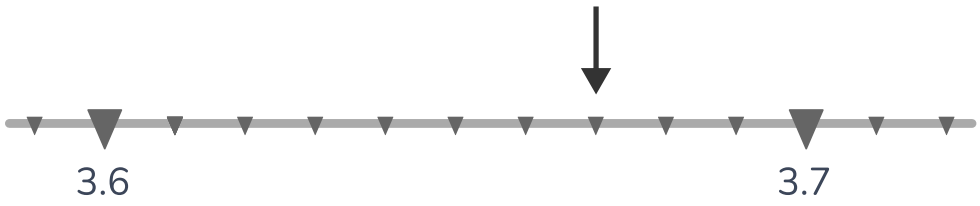
6 Complete the sentence below:

$$\frac{1}{8} \text{ of } ____ \text{ is equal to } 4$$

A 12 B 32 C 2 D 8 E 1

---

7 Look at this number line.



What number does the arrow point to?

A 3.7 B 3.73 C 3.77 D 3.66 E 3.67

---

8 Given that $66 + 77 = 143$, work out the answer to the following calculation:

$$166 + 177$$

A 200 B 443 C 343 D 11 E 243

---

9 Round the number 52.39 to one decimal place.

A 52.30 B 52.4 C 53 D 52.49 E 52.3

Please go on to the next page »

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10 What is the missing digit in the following subtraction?

$$\begin{array}{r} 6\,7\,3\,5\,8\,8 \\ -\;4\,3\,8\,3\,\square\,6 \\ \hline 2\,3\,5\,1\,9\,2 \end{array}$$

A 9 **B** 17 **C** 4 **D** 1 **E** 6

---

11 This table shows favourite sandwich fillings for different year groups.

	Cheese	Ham	Chicken	Total
Year 5	7	?	9	**23**
Year 6	8		5	**21**
Total				

How many pupils in Year 5 said ham was their favourite filling?

A 5 **B** 7 **C** 9 **D** 14 **E** 15

---

12 What is $4.38 - 1.154$

A 0.716 **B** 3.14 **C** 3.226 **D** 3.284 **E** 5.534

Please go on to the next page »

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13 Which one of these gives the answer 45?

A 60% of 70

B $\frac{1}{4}$ of 184

C $\frac{1}{5}$ of 225

D $\frac{1}{2}$ of 94

E 80% of 50

---

14 Lisa buys 7 apples at $£0.45$ each. She pays with a $£5$ note.

How much change does she receive?

A $£5$ B $£0.45$ C $£1.85$ D $£3.15$ E $£2.55$

---

15 Calculate the sum below. Give your answer in its **simplest form**.

$$\frac{7}{8} - \frac{1}{7}$$

A $\frac{5}{7}$ B $\frac{5}{8}$ C $\frac{43}{54}$ D $\frac{41}{56}$ E $\frac{14}{27}$

Please go on to the next page »

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16 Multiply these numbers:

$$3,246 \times 19$$

A $61,674$ B $59,674$ C $61,274$ D $32,450$ E $51,674$

---

17 What is $-2 + 9$?

A 7 B -11 C 11 D -7 E -6

---

18 The stopwatch below is currently paused with the dial pointing at 15 seconds.



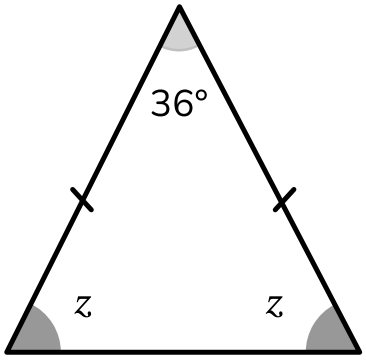
If the dial rotates clockwise through $60°$, what number will it be pointing at?

A 20 B 60 C 25 D 5 E 30

Please go on to the next page »

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19 What is the size of the angle z?



A 144°
B 63°
C 72°
D 54°
E 108°

---

20 James is using a road map with a scale of $5\ \text{cm}$ to $40\ \text{km}$.

On the map, a motorway is $15\ \text{cm}$ long.

How long is the motorway in real life?

A $75\ \text{km}$ B $3\ \text{km}$ C $120\ \text{km}$ D $8\ \text{km}$ E $200\ \text{km}$

---

21 Calculate:

$$6 \times 3 + 36 \div 9$$

A 6 B 26 C 22 D 342 E 4

Please go on to the next page »

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22 What is $\frac{2}{3}$ as a percentage?

A 5% B $33.\overline{3}\%$ C 30% D $66.\overline{6}\%$ E 60%

---

23 Each box of cupcakes contains 8 cupcakes. I have 20 people to serve, and they will each eat 1 cupcake. Exactly how many boxes of cupcakes will I need as a mixed number?

A $2\frac{1}{2}$ B $2\frac{2}{3}$ C $2\frac{3}{8}$ D $2\frac{2}{1}$ E $2\frac{1}{8}$

---

24 Complete the statement below using <, > or =. You do not need to calculate each side.

$$308 \times 10,000 \div 100 \quad \square \quad 308 \times 1,000 \div 10$$

A $<$ B $=$ C $>$

---

25 A gym ordered a new $62\ \text{kg}$ weight. How many pounds is this, if $1\ \text{kg}$ is approximately 2.2 pounds?

A 124 pounds
B 125.24 pounds
C 74.8 pounds
D 136.4 pounds
E 210.8 pounds

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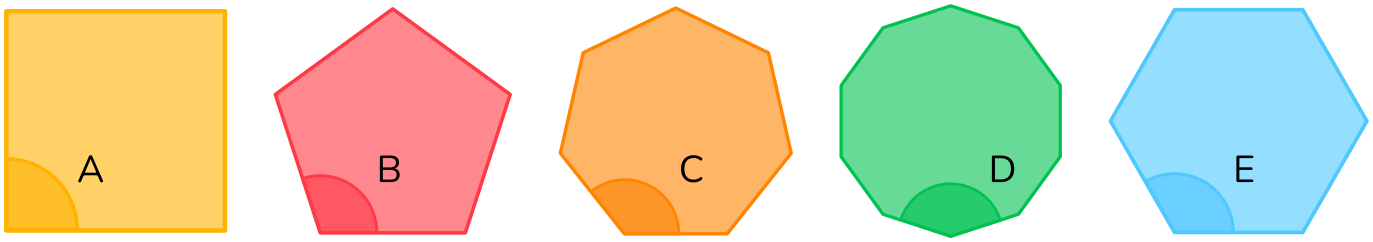
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26 In Meera's school, there are 19 students in each class. If there are 912 students in the school, how many classes are there?

A 893 B 47 C 51 D 931 E 48

---

27 In each of these regular polygons, one interior angle is marked.



If these angles are arranged from the smallest to the largest, which would be the second one?

A B C D E

---

28 Which set contains only cube numbers?

A $1, 27, 64$ B $1, 27, 100$ C $1, 25, 64$ D $2, 27, 64$ E $2, 25, 100$

Please go on to the next page »

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29 The table below shows the number of students attending dance classes at different times during the day.

What is the average number of students in a tango class?

Time	Salsa	Tango
10:00 am	20	15
11: 00 am	24	21
12:00 pm	26	14
2:00 pm	32	23
3:00 pm	18	12
4:00 pm	20	11

A 16 **B** 23 **C** 6 **D** 19 **E** 96

---

30 Solve the following equation to find the value of x:

$$5x + 14 = 2x + 29$$

A 3 **B** 5 **C** 14 **D** 15 **E** 29

Please go on to the next page »

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31 Freya counted all the smoothies that people ordered every hour for six hours. The pictogram below shows the results.

Hour	Number of smoothies
Hour 1	
Hour 2	
Hour 3	
Hour 4	
Hour 6	

Key
 = 4 smoothies

In hour 5, there were 4 more smoothies ordered than there were in hour 3. How many pictures would Freya need to draw to represent the smoothies in hour 5?

A 1 B $1\frac{1}{4}$ C $1\frac{1}{2}$ D 5 E $\frac{1}{4}$

32 Phoebe woke up feeling very groggy. She realized that she had missed her 7 am alarm as she looked at the clock on her bedroom wall; the clock showed 9 o'clock!

What is the smaller angle formed by the clock hands?

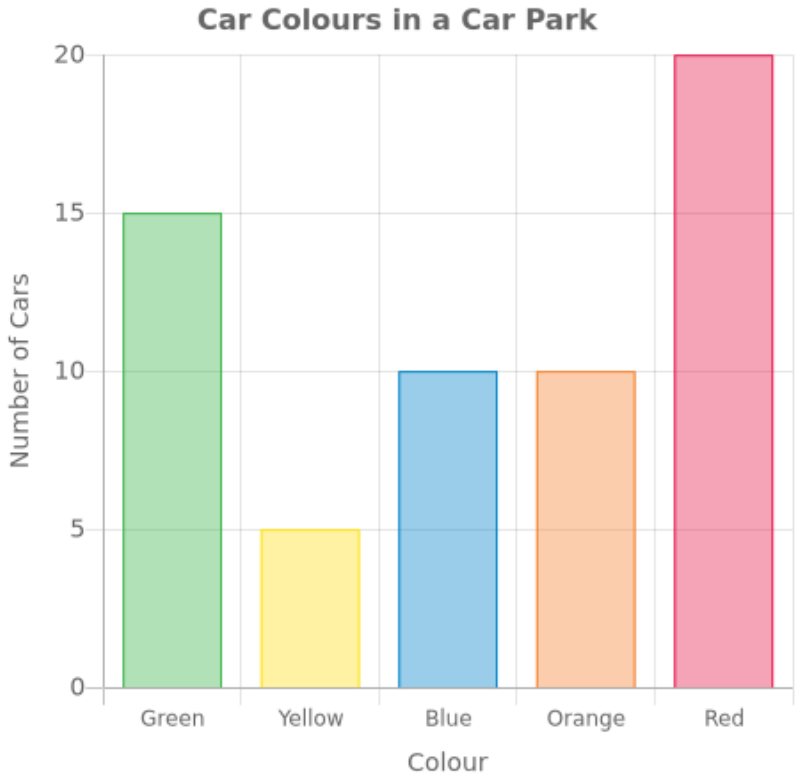
A $90°$
B $270°$
C $100°$
D $120°$
E $30°$

Please go on to the next page »

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33 Malik counted how many cars of each colour he saw in a car park. He presented the results in the bar chart below.

Malik wants to display the information above in a pie chart.
What size angle should he use for the 'Yellow' sector?



A 10^{o}
B 20^{o}
C 30^{o}
D 40^{o}
E 60^{o}

Please go on to the next page »

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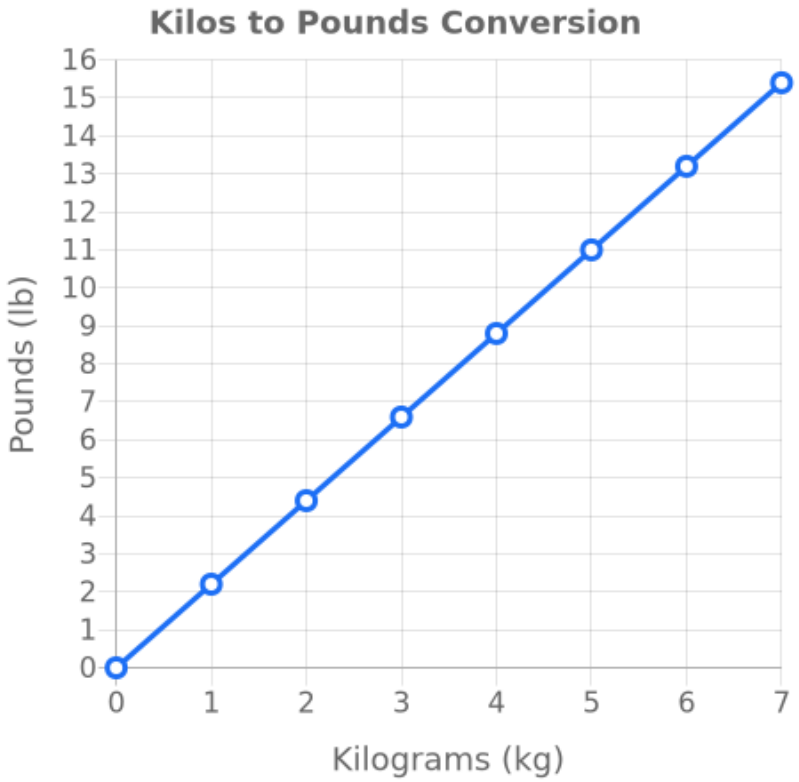
34 What are the prime factors of 154?

A $2 \times 3 \times 7$
B 77×2
C $9 \times 2 \times 11$
D 22×7
E $2 \times 11 \times 7$

---

35 The line graph below shows the conversion between kilograms and pounds.

What is the value of 15kg in pounds (lb)?



A 5 lb B 7.5 lb C 15 lb D 30 lb E 33 lb

Please go on to the next page »

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36 Which of these fractions is the smallest?

A $\frac{16}{17}$ B $\frac{8}{9}$ C $\frac{2}{5}$ D $\frac{2}{7}$ E $\frac{16}{19}$

---

37 24 is the lowest common multiple of which 2 numbers?

A 4 and 8
B 3 and 12
C 3 and 8
D 4 and 12
E 3 and 6

---

38 In a bag of 54 marbles, for every blue marble, there are 9 purple marbles and 8 orange marbles.

How many purple marbles are in the bag?

A 6 B 8 C 9 D 24 E 27

---

39 Solve the following division, giving your answer to two decimal places:

$$131 \div 3$$

A 42.76 B 43.33 C 43.67 D 125.5 E 384.33

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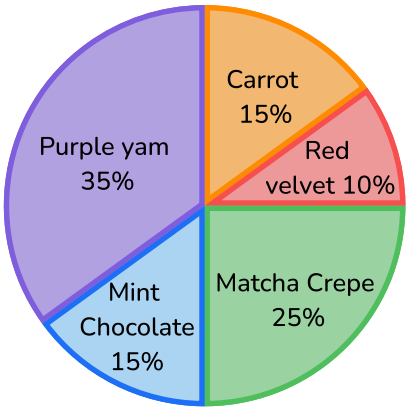
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40 Jake splits his pie into fifteenths, and Emma splits her pie into sixths. If Emma wants to swap $\frac{2}{6}$ of her pie for an equivalent amount of Jake's pie, how many pieces of his pie should Jake give her?

A 3 B 6 C 2 D 12 E 5

---

41 The pie chart below shows what type of cake each student in a group of 40 prefers.



Of the students who like purple yam cake, 6 were vegan. How many students who like purple yam cake are not vegan?

A 34 B 8 C 20 D 6 E 10

---

42 A rectangle has a perimeter of $28\ \text{m}$. If its side lengths are whole numbers, what could its area be?

A $9\ \text{m}^2$ B $54\ \text{m}^2$ C $12\ \text{m}^2$ D $63\ \text{m}^2$ E $40\ \text{m}^2$

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43 Brittany took a taxi to work. The taxi used the following formula to determine the price of the ride:

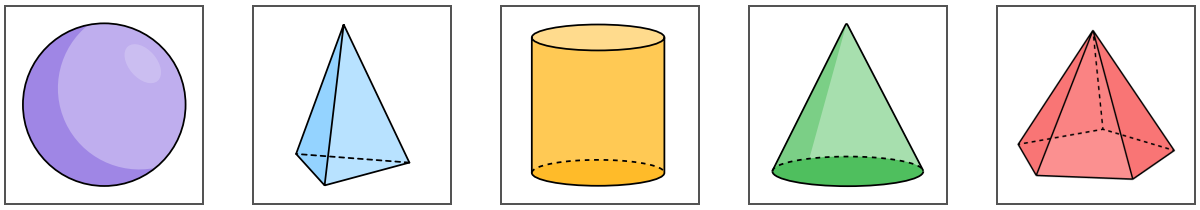
$$\text{Price} = \text{Base rate} + 0.5 \times \text{distance covered in miles}$$

If the cab's base rate is $£5.40$ and Brittany took the cab for 12 miles, how much did she pay for the cab ride?

A $£14.70$ B $£11.40$ C $£12$ D $£5.40$ E $£6$

---

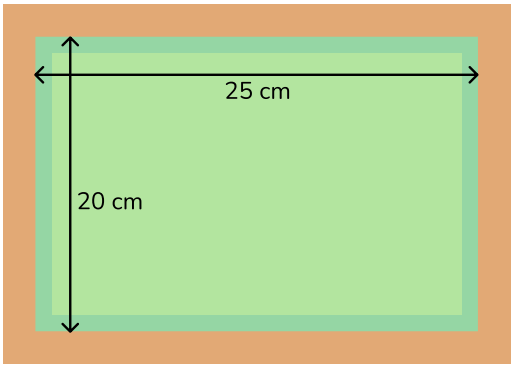
44 Which of the two solids below have the same number of vertices?



A B C D E

---

45 The outside border of the small blackboard below is $3\ \text{cm}$ thick all the way around.



What is the perimeter of the blackboard along the outside border?

A $114\ \text{cm}$ B $66\ \text{cm}$ C $90\ \text{cm}$ D $57\ \text{cm}$ E $102\ \text{cm}$

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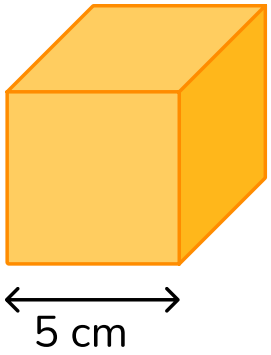
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46 Which of the following statements is true?

A The difference between a multiple of three and a multiple of nine is a multiple of six.
B The sum of two consecutive numbers is even.
C If a number is a multiple of seven, its last digit is seven.
D The difference between a multiple of six and a multiple of eight is even.
E If the sum of two numbers is even, both numbers must be even.

---

47 A cube measuring $5\ \text{cm}$ on each side is cut into $1,000$ equal pieces. What is the volume of one piece in cm^3?



What is the volume of one of the small pieces?

A $0.005\ \text{cm}^3$
B $0.025\ \text{cm}^3$
C $0.05\ \text{cm}^3$
D $0.125\ \text{cm}^3$
E $0.2\ \text{cm}^3$

Please go on to the next page »

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48 Charlotte bought a toaster that is 55% off. She paid $£135$ for it.

How much was the original price of the toaster?

A $£165$ **B** $£300$ **C** $£250$ **D** $£400$ **E** $£350$

---

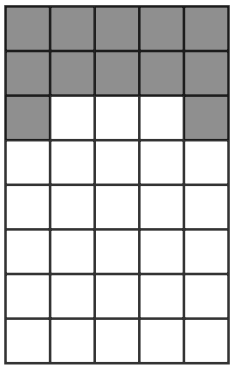
49 If September 1st falls on a Friday, which of the following dates falls on a Sunday?

A October 7th
B October 8th
C October 9th
D October 10th
E October 11th

Please go on to the next page »

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50 The image below shows a national park divided into square sections. Each square section measures $200\ \mathrm{m}$ by $200\ \mathrm{m}$. The shaded sections are designated as campsites.



What is the total area of the campsites, in square kilometres?

A $4.8\ \mathrm{km}^2$
B $0.48\ \mathrm{km}^2$
C $0.4\ \mathrm{km}^2$
D $0.04\ \mathrm{km}^2$
E $0.2\ \mathrm{km}^2$

END OF TEST

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Answer Sheet - GL Grammar 11+ Maths Paper

Name
Susan Jones

Date
05/07/2025

Test name
GL Grammar 11+ Maths Paper

Scan this QR code to add your answers from this test on Atom and get your results

Draw a line clearly through the rectangle next to your answer, like ▬.

1

- 10 ☐
- 12 ☐
- 2 ☐
- 9 ☐
- 4 ☐

2

- 4 millions ☐
- 4 ten thousands ☐
- 4 thousands ☐
- 4 tens ☐
- 4 hundred thousands ☐

3

- 12 ☐
- 6 ☐
- 8 ☐
- 5 ☐
- 7 ☐

4

- 10 ☐
- 25 ☐
- 15 ☐
- 20 ☐
- 5 ☐

5

- 381, 114 ☐
- 381, 014 ☐
- 381, 115 ☐
- 380, 114 ☐
- 380, 113 ☐

6

- 12 ☐
- 32 ☐
- 2 ☐
- 8 ☐
- 1 ☐

7

- 3.7 ☐
- 3.73 ☐
- 3.77 ☐
- 3.66 ☐
- 3.67 ☐

8

- 200 ☐
- 443 ☐
- 343 ☐
- 11 ☐
- 243 ☐

9

- 52.30 ☐
- 52.4 ☐
- 53 ☐
- 52.49 ☐
- 52.3 ☐

10

- 9 ☐
- 17 ☐
- 4 ☐
- 1 ☐
- 6 ☐

11

- 5 ☐
- 7 ☐
- 9 ☐
- 14 ☐
- 15 ☐

12

- 0.716 ☐
- 3.14 ☐
- 3.226 ☐
- 3.284 ☐
- 5.534 ☐

13

- 60% of 70 ☐
- $\frac{1}{4}$ of 184 ☐
- $\frac{1}{5}$ of 225 ☐
- $\frac{1}{2}$ of 94 ☐
- 80% of 50 ☐

14

- £5 ☐
- £0.45 ☐
- £1.85 ☐
- £3.15 ☐
- £2.55 ☐

15

- $\frac{5}{7}$ ☐
- $\frac{5}{8}$ ☐
- $\frac{43}{54}$ ☐
- $\frac{41}{56}$ ☐
- $\frac{14}{27}$ ☐

16

- 61, 674 ☐
- 59, 674 ☐
- 61, 274 ☐
- 32, 450 ☐
- 51, 674 ☐

17

- 7 ☐
- −11 ☐
- 11 ☐
- −7 ☐
- −6 ☐

18

- 20 ☐
- 60 ☐
- 25 ☐
- 5 ☐
- 30 ☐

19

- 144° ☐
- 63° ☐
- 72° ☐
- 54° ☐
- 108° ☐

20

- 75 km ☐
- 3 km ☐
- 120 km ☐
- 8 km ☐
- 200 km ☐

21

- 6 ☐
- 26 ☐
- 22 ☐
- 342 ☐
- 4 ☐

22

- 5% ☐
- $33.\overline{3}\%$ ☐
- 30% ☐
- $66.\overline{6}\%$ ☐
- 60% ☐

23

- $2\frac{1}{2}$ ☐
- $2\frac{2}{3}$ ☐
- $2\frac{3}{8}$ ☐
- $2\frac{2}{1}$ ☐
- $2\frac{1}{8}$ ☐

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Draw a line clearly through the rectangle next to your answer, like ▬.

24

$<$ ☐
$=$ ☐
$>$ ☐

25

124 pounds ☐
125.24 pounds ☐
74.8 pounds ☐
136.4 pounds ☐
210.8 pounds ☐

26

893 ☐
47 ☐
51 ☐
931 ☐
48 ☐

27

A ☐
B ☐
C ☐
D ☐
E ☐

28

1, 27, 64 ☐
1, 27, 100 ☐
1, 25, 64 ☐
2, 27, 64 ☐
2, 25, 100 ☐

29

16 ☐
23 ☐
6 ☐
19 ☐
96 ☐

30

3 ☐
5 ☐
14 ☐
15 ☐
29 ☐

31

1 ☐
$1\frac{1}{4}$ ☐
$1\frac{1}{2}$ ☐
5 ☐
$\frac{1}{4}$ ☐

32

90° ☐
270° ☐
100° ☐
120° ☐
30° ☐

33

10° ☐
20° ☐
30° ☐
40° ☐
60° ☐

34

$2 \times 3 \times 7$ ☐
77×2 ☐
$9 \times 2 \times 11$ ☐
22×7 ☐
$2 \times 11 \times 7$ ☐

35

5 lb ☐
7.5 lb ☐
15 lb ☐
30 lb ☐
33 lb ☐

36

$\frac{16}{17}$ ☐
$\frac{8}{9}$ ☐
$\frac{2}{5}$ ☐
$\frac{2}{7}$ ☐
$\frac{16}{19}$ ☐

37

4 and 8 ☐
3 and 12 ☐
3 and 8 ☐
4 and 12 ☐
3 and 6 ☐

38

6 ☐
8 ☐
9 ☐
24 ☐
27 ☐

39

42.76 ☐
43.33 ☐
43.67 ☐
125.5 ☐
384.33 ☐

40

3 ☐
6 ☐
2 ☐
12 ☐
5 ☐

41

34 ☐
8 ☐
20 ☐
6 ☐
10 ☐

42

9 m^2 ☐
54 m^2 ☐
12 m^2 ☐
63 m^2 ☐
40 m^2 ☐

43

£14.70 ☐
£11.40 ☐
£12 ☐
£5.40 ☐
£6 ☐

44

A ☐
B ☐
C ☐
D ☐
E ☐

45

114 cm ☐
66 cm ☐
90 cm ☐
57 cm ☐
102 cm ☐

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Draw a line clearly through the rectangle next to your answer, like ▬.

46

- The difference between a multiple of three and a multiple of nine is a multiple of six. ▭
- The sum of two consecutive numbers is even. ▭
- If a number is a multiple of seven, its last digit is seven. ▭
- The difference between a multiple of six and a multiple of eight is even. ▭
- If the sum of two numbers is even, both numbers must be even. ▭

47

- $0.005\ \text{cm}^3$ ▭
- $0.025\ \text{cm}^3$ ▭
- $0.05\ \text{cm}^3$ ▭
- $0.125\ \text{cm}^3$ ▭
- $0.2\ \text{cm}^3$ ▭

48

- £165 ▭
- £300 ▭
- £250 ▭
- £400 ▭
- £350 ▭

49

- October 7th ▭
- October 8th ▭
- October 9th ▭
- October 10th ▭
- October 11th ▭

50

- $4.8\ \text{km}^2$ ▭
- $0.48\ \text{km}^2$ ▭
- $0.4\ \text{km}^2$ ▭
- $0.04\ \text{km}^2$ ▭
- $0.2\ \text{km}^2$ ▭

END OF TEST

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