

The Wellington School Maths Challenge

29 November 2025



Q1. Which of these calculations gives the answer 2025?

- A.** $15 \times 9 \times 15$ **B.** $16 \times 8 \times 16$ **C.** $17 \times 7 \times 17$ **D.** $20 \times 5 \times 20$ **E.** $26 \times 3 \times 26$

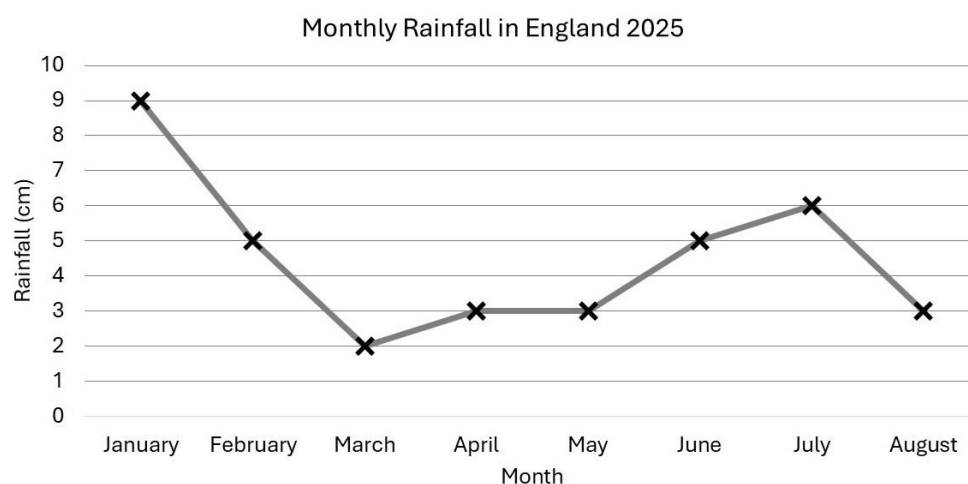
Q2. A bag contains 24 counters.
One half of the counters are circles and the rest are squares.
One third of the circles are red.
One quarter of the squares are red.
How many red counters are in the bag?

- A.** 1 **B.** 6 **C.** 7 **D.** 8 **E.** 14

Q3. Artificial intelligence analyses words or symbols which often appear next to each other to predict what comes next in a sentence or in the answer to a question.
Which letter or other symbol (e.g. a dot or a space) comes after the letter 'e' most frequently in this question?

- A.** r **B.** a **C.** n **D.** s **E.** space

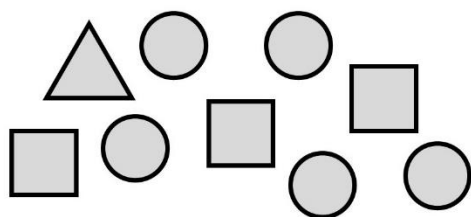
Q4. The graph below shows the amount of rain that fell in England during the first eight months of 2025.



How much more rain fell in the summer (June, July and August) than in the spring (March, April and May)?

- A.** 4cm **B.** 6cm **C.** 8cm **D.** 10cm **E.** 12cm

- Q5.** Each type of shape represents a different, positive, whole number.
All of the numbers below add up to 14.



Which number is represented by the triangle?

- A.** 1 **B.** 2 **C.** 3 **D.** 4 **E.** 5
- Q6.** Mike and Trudy both start with the same number.
Mike adds five to his number and then multiplies the answer by six.
Trudy multiplies her number by six and then adds five to the answer.
What is the difference between Mike's final answer and Trudy's final answer?

- A.** 0 **B.** 11 **C.** 25 **D.** 30 **E.** 35

- Q7.** The answers to the calculations in the boxes below are called x , y and z .

x	y	z
$4 + 3 \times 2$	$3^2 + 1$	$12 \div 2 + 4$

Which of the following statements is true?

- A.** x , y and z are all different
B. $x = y$ but z is different
C. $x = z$ but y is different
D. $y = z$ but x is different
E. x , y and z are all equal
- Q8.** Rebecca arrives at school at 8:50am.
Rebecca leaves school 384 minutes later.
At what time does Rebecca leave school?

- A.** 12.34pm **B.** 1.14pm **C.** 3.04pm **D.** 3.14pm **E.** 3.24pm

Q9. Find the digit which does not appear in the answer to:

$$758391024 \div 6$$

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| A. | B. | C. | D. | E. |
| 3 | 4 | 5 | 6 | 7 |

Q10. Which of these five points does not lie on the same straight line as the other four?

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| A. | B. | C. | D. | E. |
| (2, 4) | (4, 10) | (6, 16) | (7, 22) | (9, 25) |

Q11. Sam has some cake.

Nick has twice as much cake as Sam.

Karen has three times as much cake as Sam.

Lauren has four times as much cake as Sam.

What percentage of all of the cake does Lauren have?



- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| A. | B. | C. | D. | E. |
| 4% | 10% | 25% | 40% | 50% |

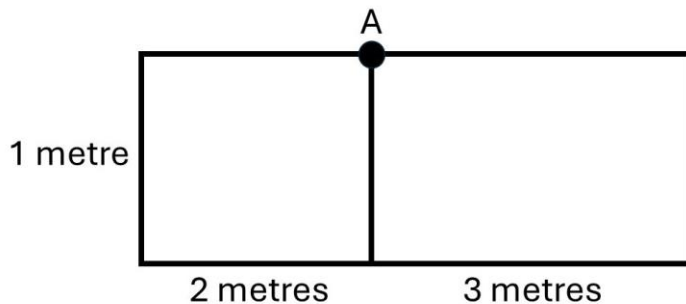
Q12. A number is called a Germain prime if it is a prime number and, if you double the number and add one, you also get a prime number.

For example, 3 is a Germain prime because 3 is a prime number and $3 \times 2 + 1 = 7$ is also a prime number.

Which of these numbers is not a Germain prime?

- | | | | | |
|-----------|-----------|-----------|-----------|-----------|
| A. | B. | C. | D. | E. |
| 2 | 5 | 11 | 13 | 23 |

- Q13.** Peter and Lydia both start at point A.
 Peter walks anticlockwise around the outside of the left rectangle.
 Lydia walks clockwise around the outside of the right rectangle.
 Peter and Lydia walk at the same speed and start walking at the same time.



How far has Peter walked when he first meets Lydia again?

- A.** 12 metres **B.** 20 metres **C.** 23 metres **D.** 24 metres **E.** 35 metres
- Q14.** I add up the ages of each person in my family.
 My answer is 257.
 If I add up all of their ages in two years' time, I will get 271.
 How many people are in my family?

- A.** 4 **B.** 5 **C.** 6 **D.** 7 **E.** 8

- Q15.** Five friends live in five different towns.
 The distances between the towns are shown in the table below:

	Town A	Town B	Town C	Town D
Town A				
Town B	14			
Town C	23	24		
Town D	25	17	22	
Town E	18	31	16	17

The friends decide to meet up in one of the towns.
 In which town should the friends meet if they want their total travelling distance to be as small as possible?

- A** **B** **C** **D** **E**

Q16. Which of the following takes the largest value when $x = -3$?

A.
 $x + 5$

B.
 $-2x$

C.
 $1 - x$

D.
 $x - 2$

E.
 $3x$

Q17. I have five different, positive, whole numbers.
The smallest number is half of the biggest number.
The numbers add up to fifty.
What is the smallest of my numbers?

A.
8

B.
7

C.
6

D.
5

E.
4

Q18. For how many three-digit numbers does the sum of the digits equal 22?

A.
18

B.
19

C.
20

D.
21

E.
22

Q19. What number should replace the question mark in the grid below?

1	2	3	4	5
1	8	27	64	
0.5	4	13.5	32	
1.5	6	16.5	36	?

A.
65

B.
66

C.
66.5

D.
67

E.
67.5

Q20. Find the number that comes next in this sequence:

$$\frac{1}{2}$$

$$\frac{7}{12}$$

$$\frac{2}{3}$$

$$\frac{3}{4}$$

...

A.
 $\frac{1}{4}$

B.
 $\frac{4}{5}$

C.
 $\frac{5}{6}$

D.
 $\frac{6}{7}$

E.
 $\frac{11}{12}$

The following five questions are not multiple choice.
Write your answers on the answer sheet in the spaces provided.

Q21. Tom has two numbers.

Tom's numbers add up to 34 and have a difference of 12.

What are Tom's two numbers?

Q22. I have twice as many chickens as I have cats.

I have twice as many cows as I have chickens.

I have twice as many sheep as I have cows.

I have 18 more cows than I have cats.

How many sheep do I have?

Q23. What is $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ of $\frac{4}{5}$ of 30?

Q24. This year, two British tennis players won the men's doubles at Wimbledon.

The last time this happened was in the year 1936.

Both 2025 and 1936 are square years.

When will the next square year be?



Q25. What is the smallest number that is in the 2, 3, 4, 5 and 6 times tables?



Wellington School

Maths Challenge 2025

School Name _____

Pupils' Names _____

In the spaces provided, write the one letter you think answers each question.
One mark will be awarded for each correct answer.

1. |__| 6. |__| 11. |__| 16. |__|

2. |__| 7. |__| 12. |__| 17. |__|

3. |__| 8. |__| 13. |__| 18. |__|

4. |__| 9. |__| 14. |__| 19. |__|

5. |__| 10. |__| 15. |__| 20. |__|

For questions 21 to 25, write your answers in the spaces provided.

21. |_____| |_____|

22. |_____|

23. |_____|

24. |_____|

25. |_____|



Maths Challenge 2025

Answers

Q1	A
Q2	C
Q3	A
Q4	B
Q5	C
Q6	C
Q7	E
Q8	D
Q9	E
Q10	D
Q11	D
Q12	D
Q13	C
Q14	D
Q15	A
Q16	B
Q17	B
Q18	D
Q19	E
Q20	C
Q21	11 and 23
Q22	48
Q23	6
Q24	2116
Q25	60