

Numbers – 2025 Checkpoint Primary Math Stage 6

1. 1/No.6

Draw a ring around the number which equals 5 when rounded to the nearest whole number.

5.55 5.19 4.49 4.34
 6 5 4 4

[1]

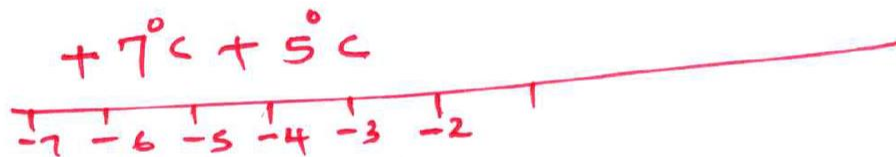
2. 1/No.9

The temperature in London is 5°C .

The temperature in Moscow is -7°C .

(a) Write a number in the box to make this sentence correct.

London is 12 $^{\circ}\text{C}$ warmer than Moscow.



[1]

(b) The temperature in London falls by 8°C .

Write the new temperature in London.

$$5^{\circ}\text{C} - 8^{\circ}\text{C} = \underline{\underline{-3^{\circ}\text{C}}}$$

-3

..... $^{\circ}\text{C}$ [1]

3. 1/No.10

Mike starts to write a sequence of numbers.

He starts at 1.7

He counts back in steps of 0.4

$$\begin{array}{r} 0.9 \\ - 0.4 \\ \hline 0.5 \end{array}$$

Here are the first 3 numbers in his sequence.

1.7

$$\begin{array}{r} \vee \\ - 0.4 \end{array}$$

1.3

$$\begin{array}{r} \vee \\ - 0.4 \end{array}$$

0.9

$$\begin{array}{r} \vee \\ - 0.4 \end{array}$$

$$\boxed{0.5}$$

$$\begin{array}{r} \vee \\ - 0.4 \end{array}$$

$$\boxed{0.1}$$

Complete the boxes to show the next 2 numbers in the sequence.

$$0.5 - 0.4 = 0.1$$

[1]

4. 1/No.11

Draw a ring around **each** calculation where the answer is a square number.

5×2

10×10

3×3

3×7

1×2

[1]

5. 1/No.13

Draw a ring around **each** prime number.

21

23

25

27

29

31

A prime number is a number divisible by 1 and itself.

[1]

6. 1/No.14

Work out.

$$5 + 5 \times 47 \times 2$$

$$\begin{aligned} &= (5 \times 47 \times 2) + 5 \\ &\quad \text{10} \times 47 \\ &= 470 + 5 \\ &= \underline{475} \end{aligned}$$

..... 475 [1]

7. 1/No.19

Write a number in each box to complete the calculations.

(a)

$$2468 \times 35 =$$

86380

$$\begin{array}{r} 2468 \\ \times 35 \\ \hline 12340 \\ 74040 \\ \hline 86380 \end{array}$$

[1]

(b)

$$455 \div 13 =$$

35

$$\begin{array}{r} 35 \\ 13 \overline{) 455} \\ \underline{39} \\ 65 \\ \underline{65} \\ 0 \end{array}$$

[1]

8. 1/No.22

Here are three numbers.

32

40

16

Write the **largest** number that is a factor of all these numbers.

Find HCF of 32, 40, 16

$$\begin{array}{r|rrrr}
 2 & 32 & 40 & 16 & \\
 \hline
 2 & 16 & 20 & 8 & \\
 \hline
 2 & 8 & 10 & 4 & \\
 \hline
 2 & 4 & 5 & 2 & \\
 \hline
 \end{array}$$

$$\begin{aligned}
 \text{HCF} &= 2 \times 2 \times 2 \\
 &= \underline{8}
 \end{aligned}$$

8

[1]

9. 1/No.23

Here are some numbers.

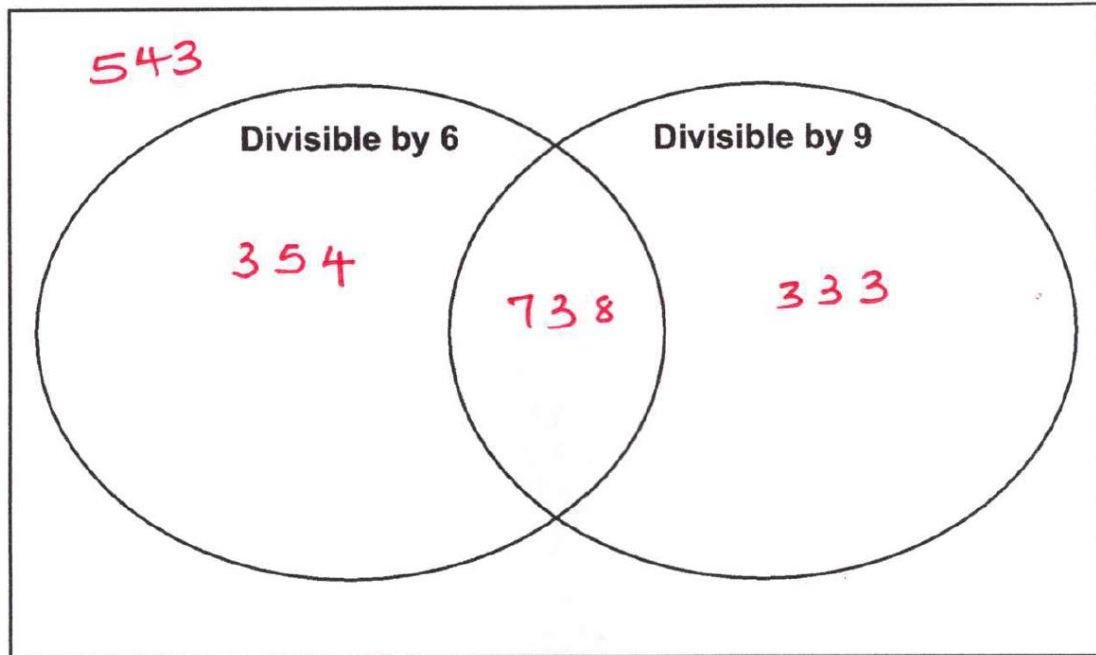
333

543

738

354

Write each number in the correct place on the Venn diagram.



- A number is divisible by 6, if the number is even and sum of its digit is divisible by 3.

- A number is divisible by 9 if the sum of its digits is divisible by 9.

$$\begin{array}{r}
 738 \\
 7+3+8 = 18 \div 9 \\
 = 2 \checkmark
 \end{array}$$

[2]

10. 2/No.1

Here are the first 5 terms of a sequence.

4 8 12 16 20

$\begin{array}{c} \vee \\ +4 \end{array}$
 $\begin{array}{c} \vee \\ +4 \end{array}$
 $\begin{array}{c} \vee \\ +4 \end{array}$
 $\begin{array}{c} \vee \\ +4 \end{array}$

The sequence continues the same way.

(a) Write the next term in the sequence.

$20 + 4 = 24$
 24 [1]

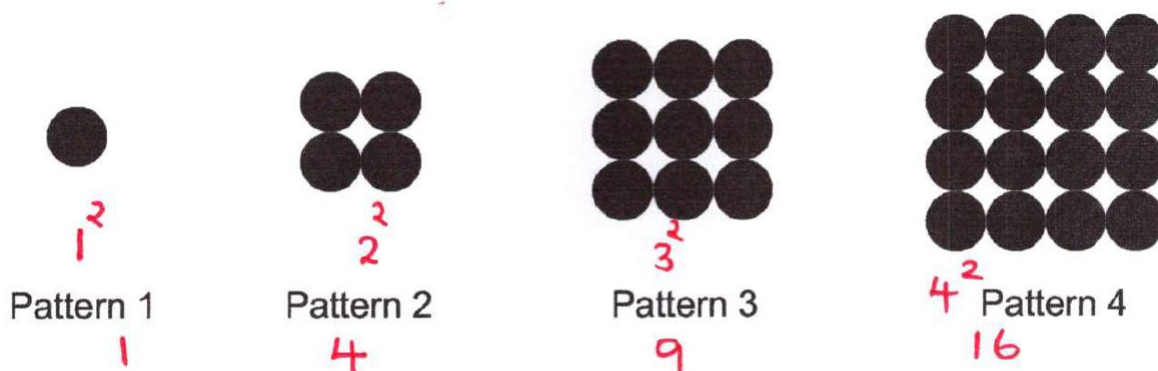
Rule: Keep adding 4 to get next term.

(b) Write the 11th term in the sequence.

$11^{\text{th}} \text{ term} = a + (n-1)d$
 $= 4 + (11-1)4$
 $= 4 + 40 = 44$
 44 [1]

11. 2/No.5

Here is part of a sequence of square number patterns.



Write the number of circles needed to make the 9th square number pattern.

$9^{\text{th}} \text{ Square} = 9^2$
 $= 9 \times 9$
 $= 81$
 81 [1]

12. 2/No.13

Write **one pair** of brackets to make the calculation correct.

$$(20 - 2) \div 2 + 4 = 13$$

[1]

$$20 - 2 = 18$$

$$18 \div 2 = 9$$

$$9 + 4 = \underline{\underline{13}}$$

13. 2/No.20

Here is part of a sequence of numbers.

8

15

22

29

36

The sequence continues the same way.

Tick (✓) to show whether the number 350 will be in the sequence.

Yes

☐

No

☒

$$\begin{aligned} n^{\text{th}} \text{ term} &= a + (n-1)d \\ &= 8 + (n-1)7 \\ &= 8 + 7n - 7 \\ &= \underline{\underline{7n + 1}} \end{aligned}$$

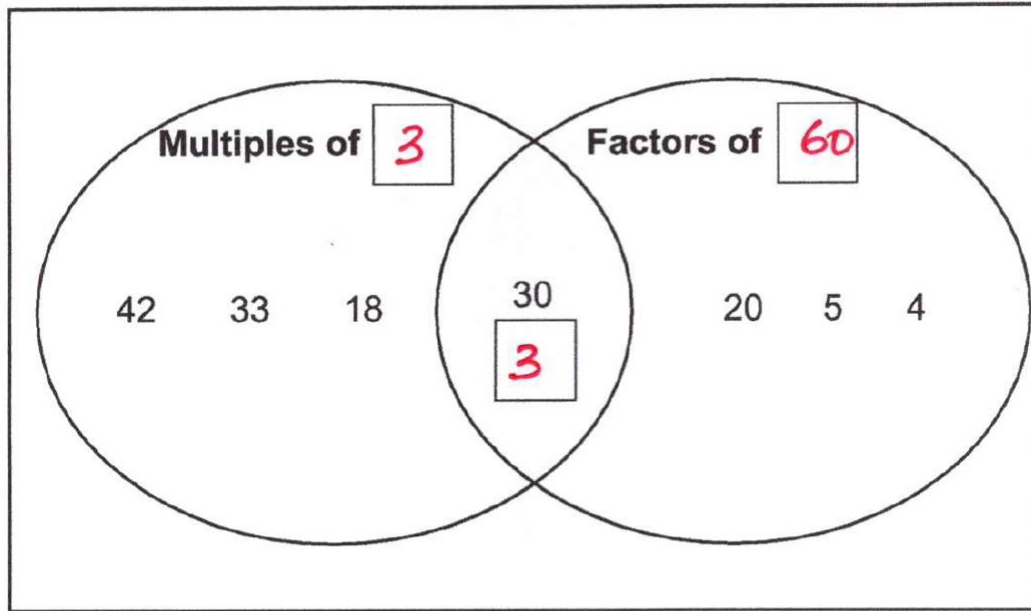
$$\begin{aligned} 7n + 1 &= 350 \\ 7n &= 350 - 1 \\ 7n &= 349 \\ \frac{7n}{7} &= \frac{349}{7} \\ n &= 49.85 \end{aligned}$$

Explain how you know.

All the numbers are more than a multiple of 7
 So 350 will not be in the sequence. [1]

14. 2/No.21

Here is part of a Venn Diagram.



Write a number in each of the **three** boxes to complete the Venn diagram.

The numbers must all be greater than 1

[2]

15. 2/No.25

Mike, Oliver and Carlos make cookies.

Mike uses 1 egg for every 5 cookies he makes.

Oliver uses 1 egg for every 10 cookies he makes.

Carlos uses 1 egg for every 6 cookies he makes.

- (a) Mike, Oliver and Carlos all want to make the **same** number of cookies as each other.

Each child **must** use a whole number of eggs.

Calculate the **smallest** number of cookies each child could make.

Mike = 5
Oliver = 10
Carlos = 6
obtain LCM;

2	5	10	6
3	5	5	3
5	5	5	1
	1	1	1

LCM = $2 \times 3 \times 5 = 30$

60 [1]

- (b) Mike, Oliver and Carlos make a total of 720 cookies for the school fair.
They each make the **same** number of cookies.

Calculate the **total** number of eggs they use.

Each person Makes = $\frac{720}{3} = 240$ cookies

Mike uses: $\frac{240}{5} = 48$ eggs

Oliver uses: $\frac{240}{10} = 24$ eggs

Carlos uses: $\frac{240}{6} = 40$ eggs

Total eggs = $48 + 24 + 40 = 112$

112 [1]

16. 2/No.26

Lily travels to London.

Lily's journey takes 2 hours and 12 minutes.

Mia also travels to London.

Mia's journey takes 0.6 hours **longer** than Lily's journey.

Write how long Mia's journey takes in hours and minutes.

$$\text{Lily's Journey} = 2 \text{ hours } 12 \text{ mins.}$$

$$120 \text{ mins} + 12 \text{ mins}$$

$$= \underline{132 \text{ minutes}}$$

$$1 \text{ hr} = 60 \text{ mins}$$

$$? = 168 \text{ mins}$$

$$\underline{2 \text{ hrs } 48 \text{ mins}}$$

$$\text{Mia} = 0.6 \text{ hours longer}$$

$$0.6 \times 60 = \underline{36 \text{ mins}}$$

$$\text{Mia} = \frac{132}{36}$$

$$\text{Journey} = \frac{168 \text{ mins}}{48}$$

$$\dots\dots\dots 2 \dots\dots\dots \text{hours} \dots\dots\dots 48 \dots\dots\dots \text{minutes [1]}$$