

Numbers – 2024 Checkpoint Primary Math**1. 2024/Paper 1_stage 5/No.2**

Draw a ring around each number that is divisible by 4

224 240 304 434 422
 (circled) (circled) (circled) not a multiple of 4 not a multiple of 4.

A number is divisible by 4 if the last two digit numbers of the number are zeros or multiples of 4. [1]

2. 2024/Paper 1_stage 5/No.10

Jamila sorts some numbers using a Carroll diagram.

	Multiples of 2	Not multiples of 2
Multiples of 5	30 80	15 5
Not multiples of 5	16 6	3 13

Write a number in each box to complete the Carroll diagram.

[1]

3. 2024/Paper 1_stage 5/No.19

Here is a sequence.



The sequence continues in the same way.

Write the correct number in each box.

Term to term rule is 'subtract 7'

$$4^{\text{th}} \text{ term} = -1 - 7 = -8$$

$$5^{\text{th}} \text{ term} = -8 - 7 = -15$$

[1]

4. 2024/Paper 1_stage 5/No.20

Draw a line to match each description to the correct number.

Description	Number
3 ones 4 tenths 5 hundredths $3 + 0.4 + 0.05 = 3.45$	3.45
3 tens 4 ones 5 tenths $30 + 4 + 0.5 = 34.5$	30.45
3 tens 4 tenths 5 hundredths $30 + 0.4 + 0.05 = 30.45$	34.5
	34.05

[2]

5. 2024/Paper 1_stage 5/No.28

! Here is a rule for producing a number sequence.

Add 2 to the previous term and
multiply the answer by 7

Mia follows this rule.
Her first term is 4.9

Calculate her 3rd term.
Show your working.

$$2^{\text{nd}} \text{ term} = (4.9 + 2) \times 7$$

$$\begin{array}{r} 4.9 \\ + 2.0 \\ \hline 6.9 \end{array} \quad (1 \text{ dp})$$

$$\begin{array}{r} 6.9 \\ \times 7 \\ \hline \end{array}$$

$$48.3$$

$$= 48.3$$

$$3^{\text{rd}} \text{ term} = (48.3 + 2) \times 7$$

$$\begin{array}{r} 48.3 \\ + 2.0 \\ \hline 50.3 \end{array} \quad (1 \text{ dp})$$

$$\begin{array}{r} 50.3 \\ \times 7 \\ \hline \end{array}$$

$$352.1$$

$$\therefore 3^{\text{rd}} \text{ term} = 352.1$$

$$352.1$$

[2]

6. 2024/Paper 1_stage 5/No.32

! Anastasia chooses a 4-digit number.

The digits are all odd.

The digits are all different.

Her number rounds to 1500 when rounded to the nearest 100

Write the largest number that Anastasia could choose.

Since the number rounds to 1500 when rounded to the nearest 100,
the tens digit is less than 5. (1 or 3)

Ones digit is the largest odd integer 9

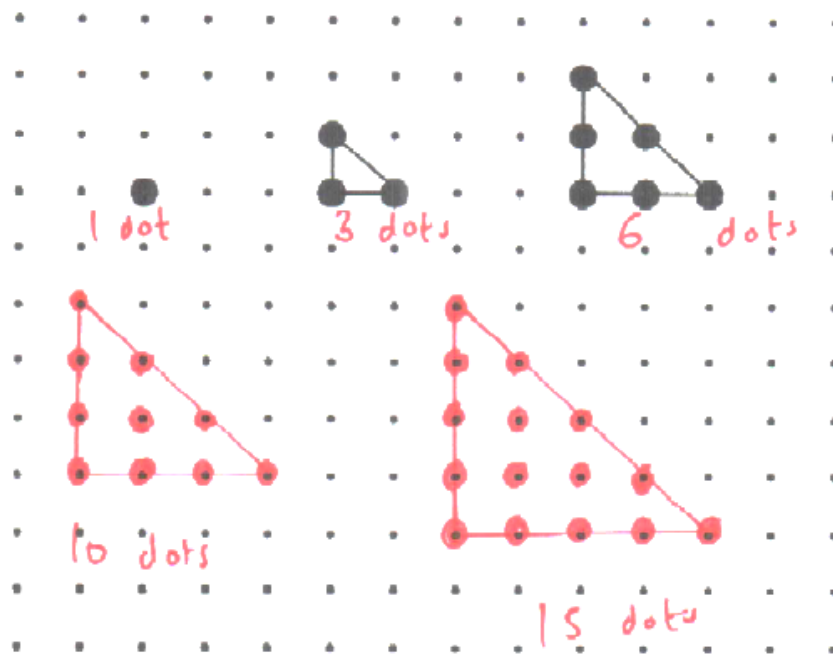
$$1539$$

[1]

$$\therefore \text{largest number} = 1539$$

7. 2024/Paper 2_stage 5/No.1

Here is the spatial pattern for the first three triangular numbers drawn on a square dotty grid.



Draw the 5th triangular number on the square dotty grid.

[1]

8. 2024/Paper 2_stage 5/No.9

Eva chooses a number with 1 decimal place.

Her number rounds to 7 when rounded to the nearest whole number.

Write a number that Eva could choose.

Number = $x.y$, where y is greater than 5 or less than 5

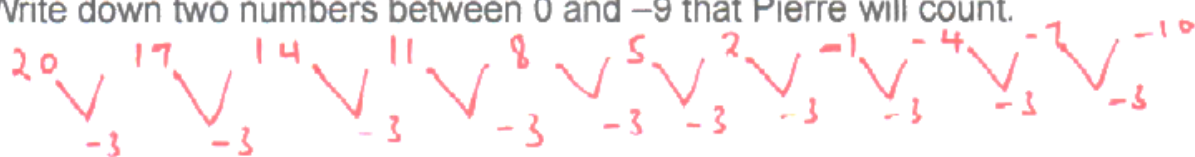
= 6.5 to 7.4

..... 6.5 to 7.4 [1]

9. 2024/Paper 2_stage 5/No.14

Pierre counts back in 3s starting at 20

Write down two numbers between 0 and -9 that Pierre will count.



= -1 or -4 or -7

..... -1 and -4 [1]

10. 2024/Paper 2_stage 5/No.19

(a) Write three different prime numbers with a total of 25

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

= 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, ...

$$3 + 5 + 17 = 25$$

$$5 + 7 + 13 = 25$$

..... 3 5 17
 5 or 13
 7

[1]

(b) Write two different prime numbers with a total of 25

..... 2 23

[1]

11. 2024/Paper 2_stage 5/No.26

Here is part of a sequence.



The sequence is made by adding a number to the previous term.
The same number is added each time.

Write the term that comes after 29 in the sequence.

Let the number be x

$$\begin{aligned} \text{Term after } 29 &= 29 + 8 \\ &= 37 \end{aligned}$$

$$5 + x + x + x = 29$$

$$5 + 3x = 29$$

$$3x = 29 - 5$$

$$\begin{array}{r} 3x = 24 \\ \hline 3 \end{array}$$

$$\therefore x = 8$$

..... **37** [1]