Year 6 Remote Learning - Maths Friday 18 ${ }^{\text {th }}$ February 2022 - Complete the following reasoning style questions.
3. Francesca asked 60 children to choose their favourite flavour of squash.

| Flavour | Number of <br> children |
| :--- | :---: |
| Raspberry | 12 |
| Lemon | 8 |
| Orange | 15 |
| Blackcurrant | 25 |
| Total | $\mathbf{6 0}$ |

What percentage of the 60 children chose orange?

6. Hannah scores 40 out of 80 in a test. Judy scores $40 \%$ in the same test.

Who has the higher score?
Explain how you know.
7. Out of 80 , what are the following amounts as percentages?


1. Write the missing number.
$6+2 \times 2-\square=6$
2. Write what the missing numbers could be.
$120=100+(\square-\square)$
3. Write what the missing numbers could be.

4. These two shapes have the same perimeter.


Not actual size
The length of each side of the hexagon is 10 cm .
Calculate the area of the square.


Calculate the area of the square. If the sides of the hexagon were 4 cm .
8. Circle the prime number.
75
89 87

Explain how you know the other numbers are not prime.
$\qquad$
9. Circle the prime number.

1056953
Explain how you know the other numbers are not prime.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

12. Circle the two prime numbers.

$$
\begin{array}{lllll}
29 & 39 & 49 & 59 & 69
\end{array}
$$

11. What number is 1,000 less than 1,045 .
$\square$
12. What number is 1,000 less than 1,098 .
$\square$
13. A machine pours 200 millilitres of juice every 4 seconds.

How many litres of juice does the machine pour every minute?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | (1) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

14. A machine pours 350 millilitres of juice every 4 seconds.

How many litres of juice does the machine pour every minute?

$\qquad$
15. The numbers in the sequence increase by 60 each time.

Write the missing numbers.


