## Autumn Assessment <br> Year 7

 B
## Mathematics

## Foundation: No calculator allowed

Time allowed: 45 minutes

| First name |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Middle name |  |  |  |  |  |
| Last name |  |  |  |  |  |
| Date of birth | Day |  | Month |  | Year |
| Teacher |  |  |  |  |  |

This assessment has been designed by White Rose Maths.
For more information, please visit www.whiterosemaths.com

White


| 76 | 607 | 67 |
| :--- | :--- | :--- | :--- |




Draw an arrow to show the position of 25 on the number line.


Here is another number line.
Work out the value of A .


A =

$\overline{1 \text { mark }}$


Find the input for each function machine.

$\overline{1 \text { mark }}$
input


The first one has been done for you.

| Words | Algebraic expression |
| :---: | :---: |
| $w$ divided by 3 | $\frac{w}{3}$ |
| 7 multiplied by c |  |
| 2 less than $y$ |  |
| $y$ less than 2 |  |

Here are some digit cards.


Use all the cards to make an even number between 7000 and 8000




0.2


2 marks

Write $\frac{3}{4}$ as a percentage.
$\square$

| 143 |  |
| :---: | :---: |
| 105 | 38 |

## Complete the bar model to represent the calculation.

$$
7 \times 5=35
$$


$10+a=19$

$$
a=
$$

$\overline{1 \text { mark }}$

$$
h-5=6
$$

1 mark

$$
\frac{d}{2}=8
$$

11 Amir and Whitney substitute $t=6$ into the expression $4 t$.
Amir gets an answer of 46
Whitney gets an answer of 24
Who is correct?
Circle your answer.

## Amir <br> Whitney

Explain how you know.

Pattern 2


Pattern 3

Complete the table to show the number of dots in each pattern in this sequence.

| Pattern | 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of dots | 1 | 5 |  |  |  |



Explain why Dexter is wrong

|  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Write $<,>$ or $=$ to complete the statements.


Tick the linear sequence.
$2,4,8,16,32$ $\square$
$1,1,2,3,5,8$ $\square$
$2,5,8,11,14$ $\square$

Another linear sequence starts at 101 and decreases by 2 each time.

Write the first four terms of the sequence.


Eva has represented 34.25 on a place value chart.

| Tens | Ones | Tenths | Hundredths |
| :---: | :---: | :---: | :---: |
| (10) (10) | $\begin{aligned} & 111 \\ & 1 \end{aligned}$ | $0.10 .1$ | $\begin{aligned} & 0.01 \text { (0.01) } 0.01 \\ & 0.01 \end{aligned}$ |

What is five-tenths more than Eva's number?
$\square$


1 mark
Round 29.35 to the nearest ten.


$$
4 x+3 x+x=24
$$

