## Spring Assessment

## Year 9

## Mathematics

## Foundation: No calculator allowed

Time allowed: 45 minutes

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

These assessments have been designed by White Rose Maths.
For more information, please visit www.whiterosemaths.com

White

There are 34 pens in a box.
Jack takes 13 pens out of the box.
Aisha puts 19 pens into the box.

How many pens are now in the box?


2 marks

## £



Here is a diagram of a cuboid.


## Write down

the number of faces

the number of edges

the number of vertices


$$
\begin{array}{lll}
\frac{3}{10} & 35 \% & 0.31
\end{array} 0.039
$$

A laptop costs £1050
The cost of the laptop is reduced by 30\%
How much does the laptop cost now?

## £




Work out the size of the angle marked $x$.
Give a reason for your answer.

$\overline{2 \text { marks }}$
Explain why the angle marked $y$ is $80^{\circ}$.

Explain why the angles marked $y$ and $z$ are equal.

## $4 m-5=35$

$$
\begin{aligned}
& \quad m= \\
& \frac{d}{2}+1=4
\end{aligned}
$$

2 marks



On the grid, rotate triangle A $90^{\circ}$ anti-clockwise about the origin.
Label your new triangle B.


Here is a rectangle.
$\frac{1}{3} m$


Work out the area of the rectangle.

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

$$
-3-5
$$



1 mark

$$
-3--5
$$



1 mark

## $-3 \times-5$




Calculate the value of the investment at the end of 3 years.

## £

Use a ruler and a pair of compasses to construct an equilateral triangle with sides of length 6 cm .

You must show all your construction lines.

