## Summer Assessment

## Year 8

## 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


Reflect the shape in the mirror line.


$$
3(x+5)
$$

Solve the equation.

$$
4 x+20=60
$$

Solve the inequality.

$$
30<2 y-10
$$

The pictogram shows the number of books sold in a shop on Monday to Thursday one week.

| Monday | $\bigcirc$ | $\bigcirc$ |  |
| :--- | :---: | :---: | :---: |
| Tuesday | $\bigcirc$ | $\bigcirc$ |  |
| Wednesday | $\bigcirc$ | $\bigcirc$ |  |
| Thursday | $\bigcirc$ |  |  |
| Friday |  |  |  |
| Key: $\bigcirc$ represents 10 books |  |  |  |

How many books were sold on Monday?


How many books were sold on Tuesday?


1 mark
25 books were sold on Friday.
Use this information to complete the pictogram.

Huan spins a four-sided spinner.


On the probability scale, mark with a cross $(X)$ the probability that the spinner lands on 1


Write down the probability that the spinner lands on 3

They are all red or blue.
Complete the two-way table.

|  | Red | Blue | Total |
| :--- | :---: | :---: | :---: |
| Pens |  | 6 |  |
| Pencils | 4 |  | 11 |
| Total |  |  | 20 |

$2^{3}$


1 mark

## $2+6 \times 7$



1 mark

Jim drives an average of 91.3 miles a week.
Work out an estimate for the number of miles Jim drives in a year.
Show your working.


Here is a bar chart showing the number of miles AI and Zoe run from Monday to Friday in a week.


How much further does Al run on Wednesday than Zoe?

Zoe runs 5 miles on Thursday.
Use this information to complete the bar chart.


## What is the mathematical name of this triangle?

Find the area of the triangle.

Find the $25^{\text {th }}$ term of the sequence.

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

The $n^{\text {th }}$ term of another sequence is $(n+5)^{2}$
Which is the $5^{\text {th }}$ term of this sequence?
Circle your answer.

## $10 \quad 20 \quad 30 \quad 100$

Work out the calculation, giving your answer in its simplest form.

$$
\frac{3}{5} \times \frac{5}{9}
$$

## 500: 200



1 mark
In a scale drawing 2 cm represents 5 m .
What distance on the scale drawing represents a real-life distance of 20 m ?


Diagrams not drawn accurately.


Work out the size of angle $B$.


Work out the size of angle $C$.


## END OF TEST

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