## Spring Assessment <br> Year 9

 B
## Mathematics

## Core: Calculator allowed

Time allowed: 45 minutes

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

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White

Circle your answer.

$$
\frac{3}{5} \quad \frac{6}{9} \quad \frac{22}{11} \quad \frac{12}{5}
$$

What fraction of the counters are blue?

[^0]$$
7.2 x=19.44
$$

$$
x=
$$

1 mark

$$
\frac{y}{5}-\frac{2}{3}=\frac{1}{2}
$$

Circle your answer.

Any pair of integers shares at least one common factor.

## True False

Explain your reasoning.

Label your new shape N .


Are shapes M and N congruent?
Circle your answer.
Yes No

Explain your reasoning.

Work out the sale price of the coat.

## £

2 marks

The sale price of a handbag is $£ 108$
Work out the normal price of the handbag.

## £

2 marks

WX and $Y Z$ are parallel lines.
XP is a straight line.


Work out the size of angle $a$.
Give a reason for each stage of your working.


Here is a triangle.


Make an accurate drawing of the triangle in the space below.

State units with your answer.

$\square$

A savings account pays $3 \%$ compound interest per year. Dr Lee invests $£ 6000$

## Work out the value of Dr Lee's investment after 5 years.




Work out the length of the side marked $x$.


2 marks

Work out the surface area of the triangular prism.


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[^0]:    Explain why there cannot be exactly 31 counters in the box.

