Spring Assessment



Mathematics

Core: Calculator allowed

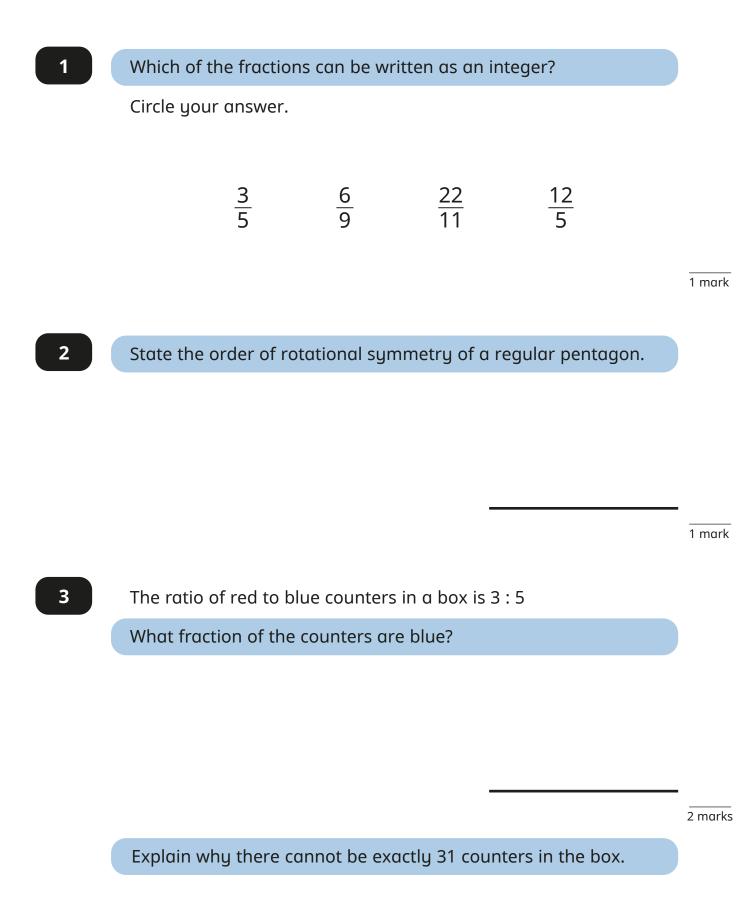
Time allowed: 45 minutes

First name					
Middle name					
Last name					
Date of birth	Day	Month		Year	
Teacher		~	-	^	

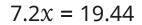
В

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1 mark





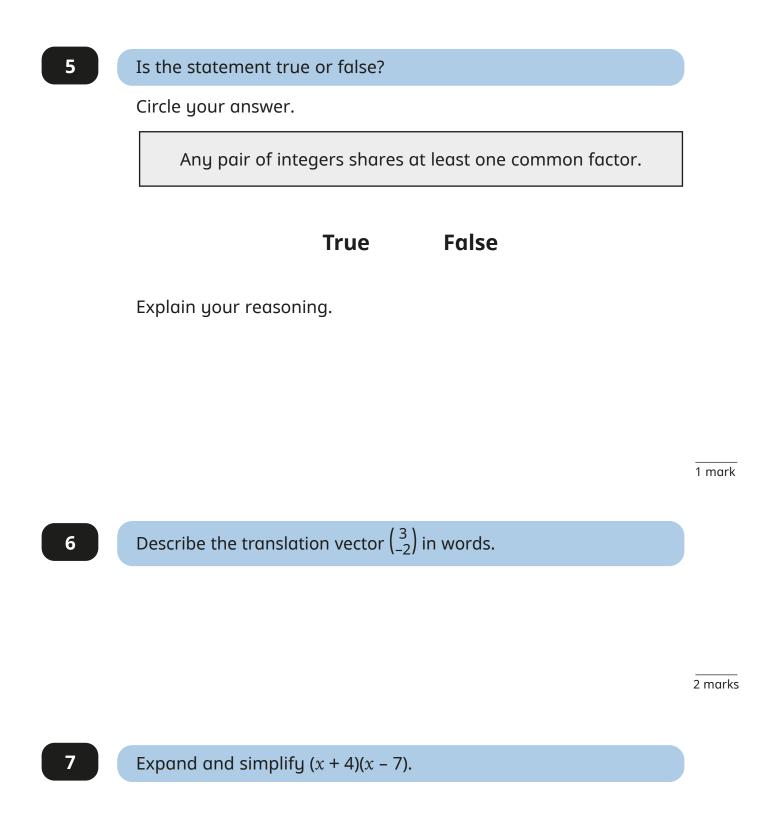
1 mark

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



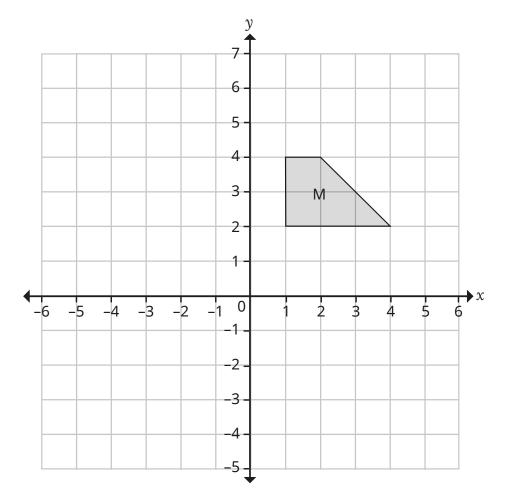
10 < 2z - 15

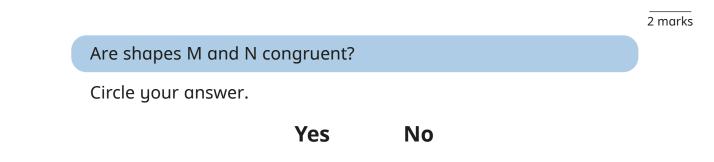
4



Rotate shape M 90° clockwise about the point (1, 0).

Label your new shape N.

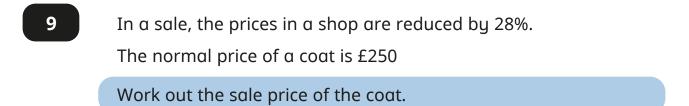


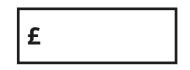


Explain your reasoning.

8

1 mark





2 marks

The sale price of a handbag is £108

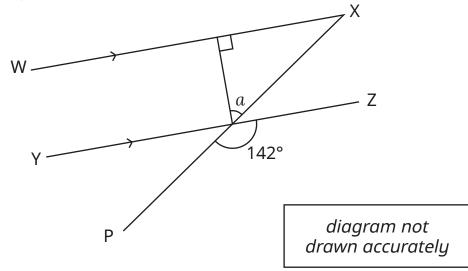
Work out the normal price of the handbag.



2 marks

WX and YZ are parallel lines.

XP is a straight line.



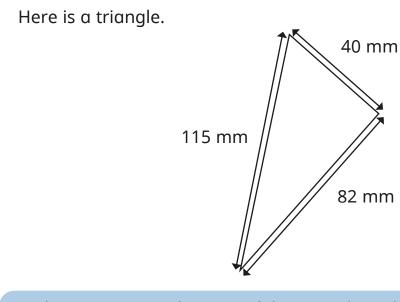
Work out the size of angle *a*.

Give a reason for each stage of your working.



3 marks

10

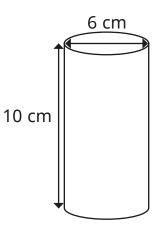


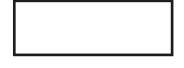
Make an accurate drawing of the triangle in the space below.

11

Find the volume of the cylinder.

State units with your answer.





3 marks

13

12

A savings account pays 3% compound interest per year.

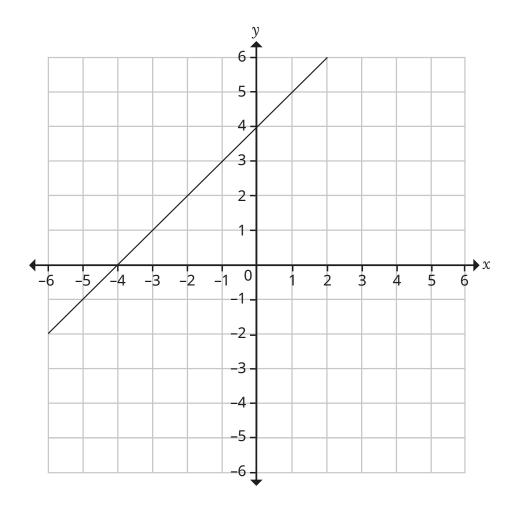
Dr Lee invests £6000

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

|--|

3 marks

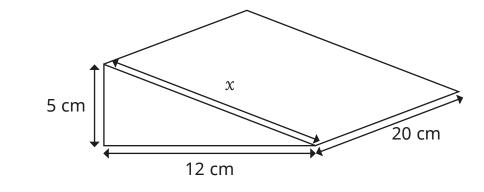
Find the equation of the line.



2 marks

Here is a triangular prism.

15



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

cm

2 marks

Work out the surface area of the triangular prism.

cm²

3 marks

END OF TEST

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