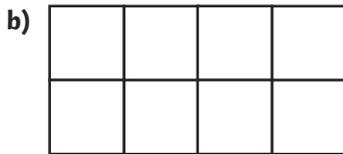


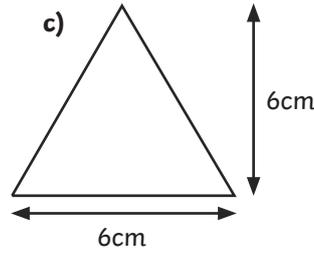
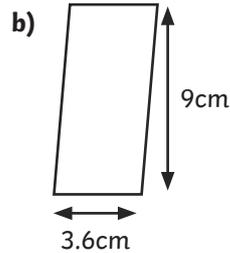
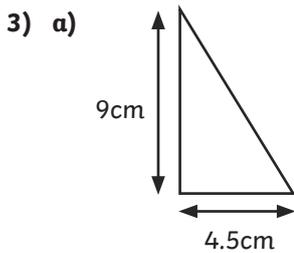
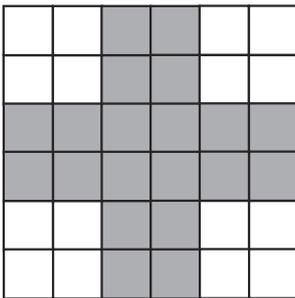
Could also be arranged 2 rows of 4 squares.



Could also be arranged 4 rows of 2 squares.

2) The dimensions of the original flag were  $3 \times 3$  squares.

Doubling these dimensions creates a flag with dimensions of  $6 \times 6$  squares:



4)  $12.9\text{cm} \div 3 = 4.3\text{cm}$   
 $4.3\text{cm} \times 4 = 17.2\text{cm}$   
 perimeter =  $17.2\text{cm}$

1) Alice is incorrect. If shape A is enlarged by a scale factor of 2, then the length and width of the shape double in size.

Correctly enlarging shape a with a scale factor of 2 will result in shape B having a width and height of 4 squares.

2)  $12 \div 3 = 4$

$4 \times 5 = 20\text{cm}$

3) Each dimension should be enlarged by 3.

Width:  $3 \times 3 = 9\text{cm}$

Height:  $2 \times 3 = 6\text{cm}$

Area of triangle:  $h \times w \div 2$

$9 \times 6 = 54 \div 2 = 27\text{cm}^2$

Johan is incorrect.





1)  $2 + 2 + 2\text{cm} = 6\text{cm}$  (even)

$8 + 8 + 8\text{cm} = 24\text{cm}$  (even)

$8 \div 2 = 4$

The smaller triangle has been enlarged by a scale factor of four to create the larger triangle. Jamil is correct.

2)  $10 \div 4 = 2.5$

The shape has been enlarged using 2.5 as a scale factor.

$3 \times 2.5 = 7.5\text{cm}$

Two sides the same length in an isosceles triangles:  $2 \times 7.5 = 15\text{cm}$

$15 + 10 = 25\text{cm}$

The perimeter is 25cm

3)

Dimension	Scale Factor 0.5	Original Triangle	Scale Factor 2	Scale Factor 3	Scale Factor 4
Height (cm)	<b>3cm</b>	<b>6cm</b>	<b>12cm</b>	<b>18cm</b>	24cm
Width (mm)	16mm	<b>32mm or 3.2cm</b>	<b>64mm or 6.4cm</b>	<b>96mm or 9.6cm</b>	<b>128mm or 12.8cm</b>