

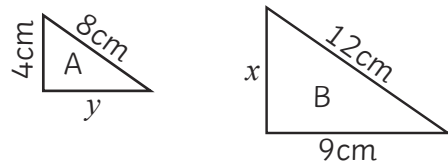
Scale Factor

Solve the clues to find the four-digit code to escape the classroom!
In each diagram, shape B is an enlargement of shape A.

a. Work out the scale factor of enlargement:



b. Work out the missing values x and y :



c. Shape A has a surface area of 400cm^2 . Calculate the surface area of shape B to the nearest cm^2 .



The code is the scale factor in question a, the x -value only in question b and the answer to question c.



Exit Code:

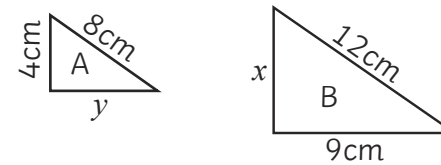
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Exit Code:

Answers

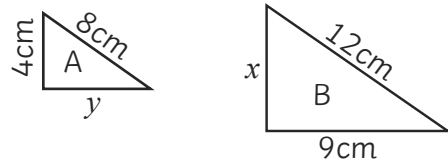
Solve the clues to find the four-digit code to escape the classroom!
In each diagram, shape B is an enlargement of shape A.

a. Work out the scale factor of enlargement:



Scale factor = 4

b. Work out the missing values x and y :



$x = 6, y = 6$

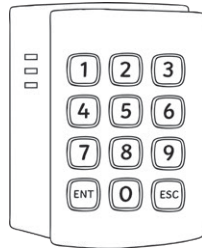
c. Shape A has a surface area of 400cm^2 . Calculate the surface area of shape B to the nearest cm^2 .



Scale factor = $\frac{1}{3}$

$$400 \times \left(\frac{1}{3}\right)^2 = 44\text{cm}^2$$

The code is the scale factor in question a, the x -value only in question b and the answer to question c.



Exit Code:

4 6 4 4

Answers

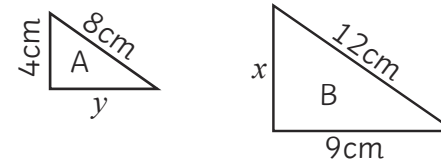
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Scale factor = 4

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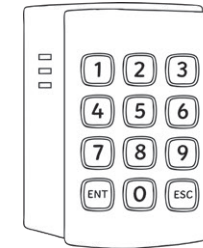
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