

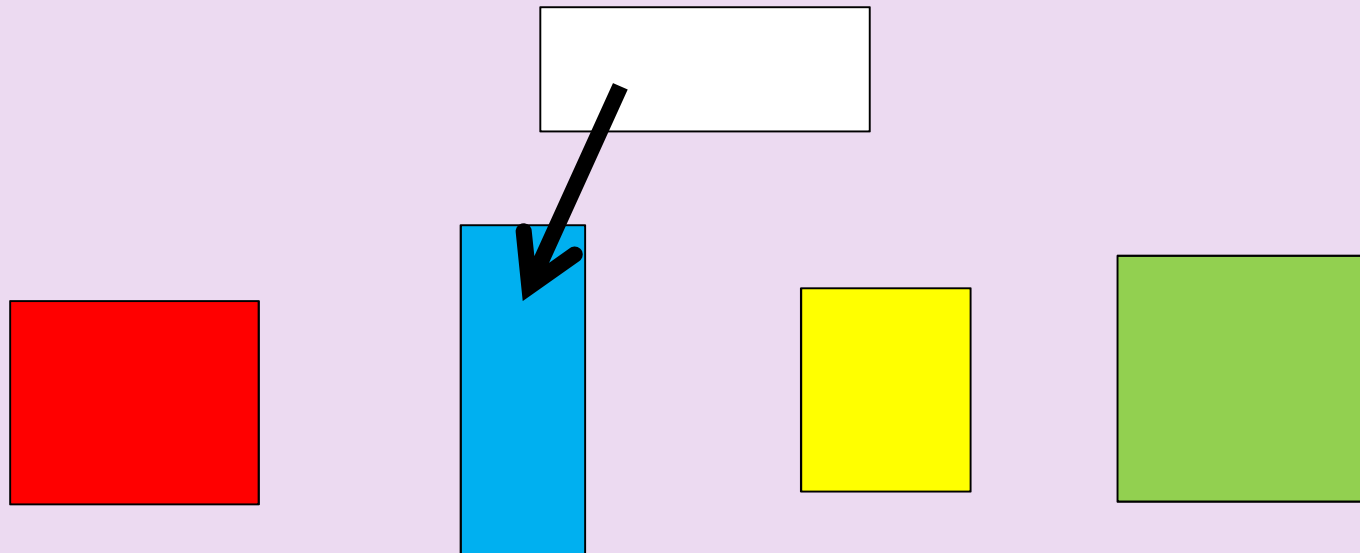
Lesson Objectives:

Developing students will be able to identify ratios of sides of similar shapes.

Secure students will be able to calculate the scale factor of similar shapes.

Excelling students will be able to calculate missing sides of similar shapes.

Which coloured shape is mathematically similar to this white one?



Keywords

Linear, area, volume, scale factor, ratio, similar, congruent

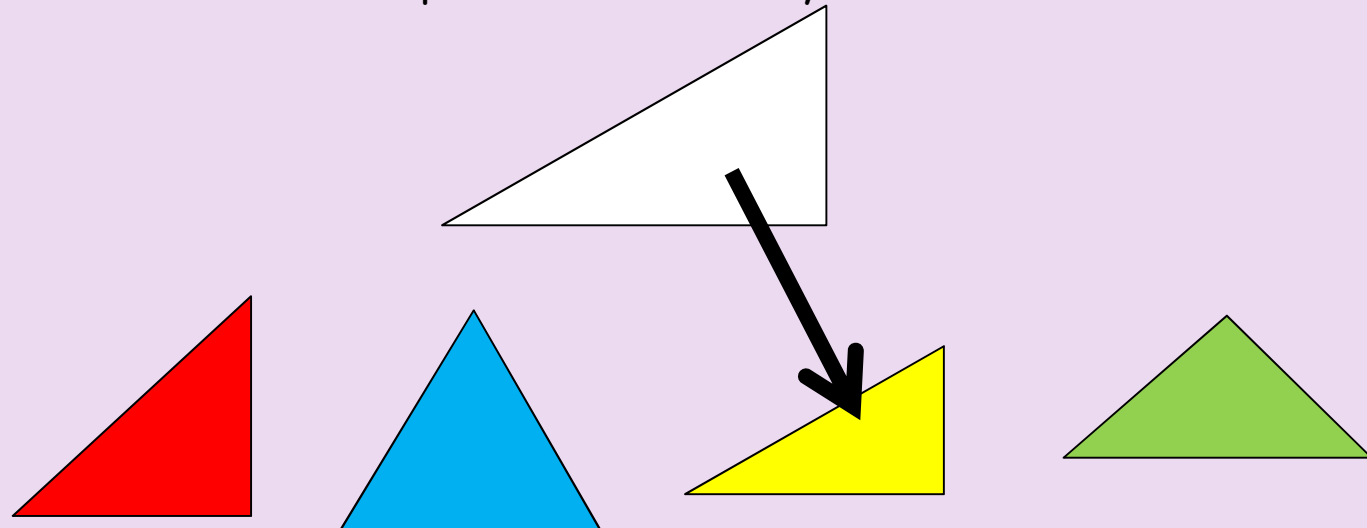
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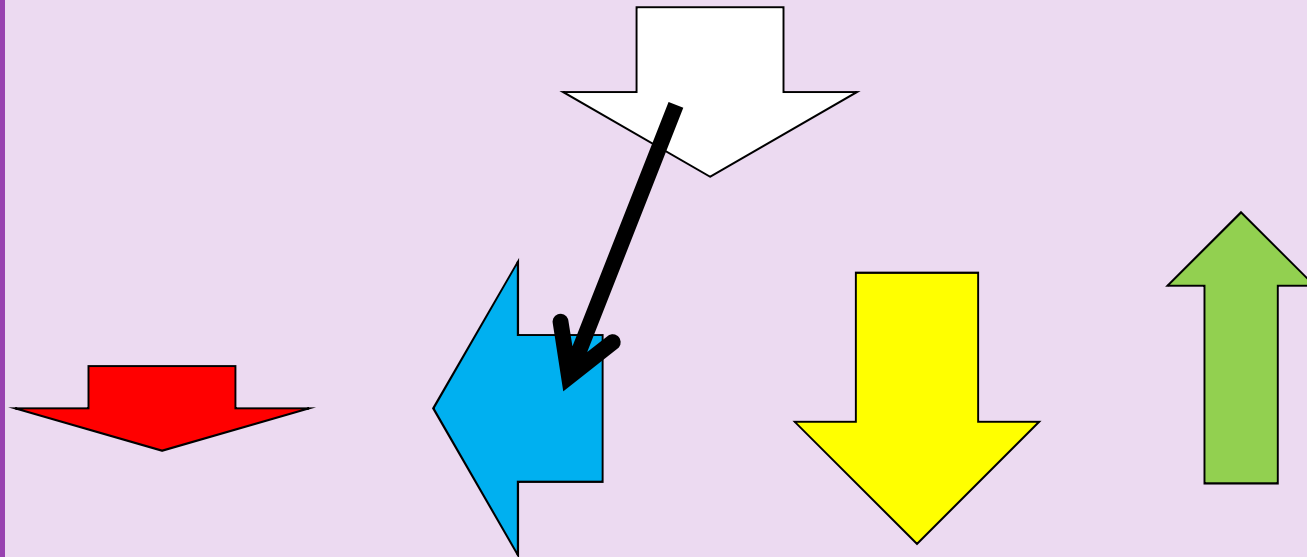
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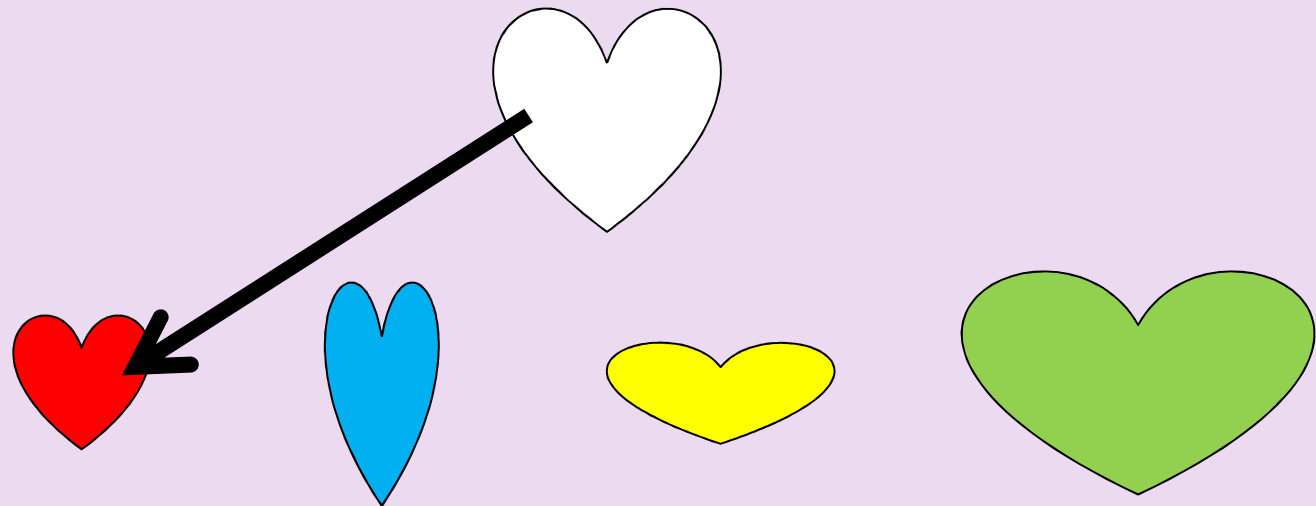
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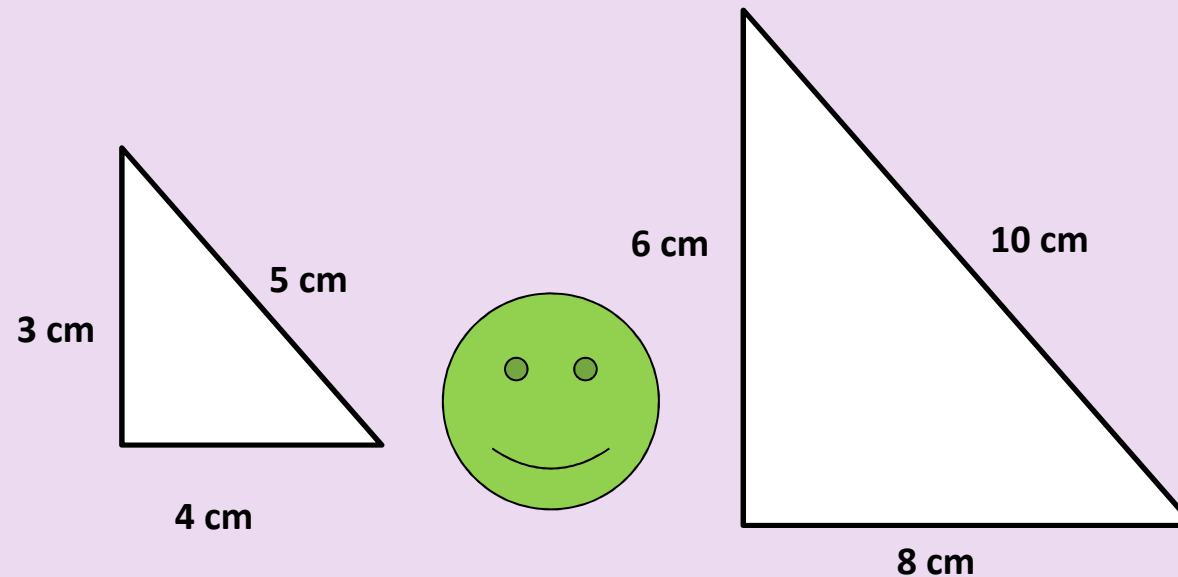
Lesson Objectives:

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Are these triangles similar? 😊 = yes, 😞 = no, 😐 = not sure



Keywords

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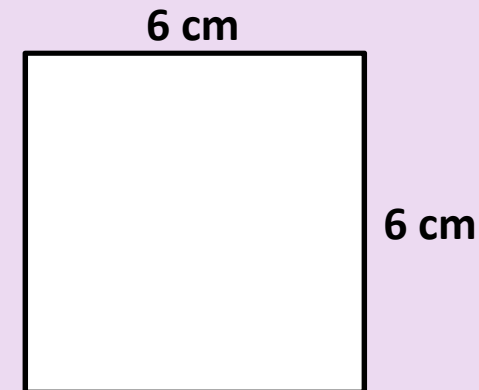
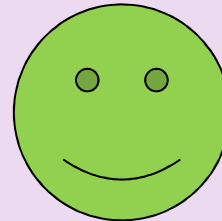
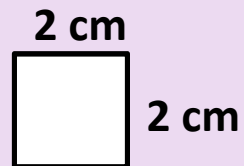
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Are these squares similar? 😊 = yes, 😞 = no, 😐 = not sure

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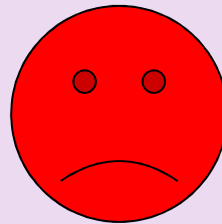
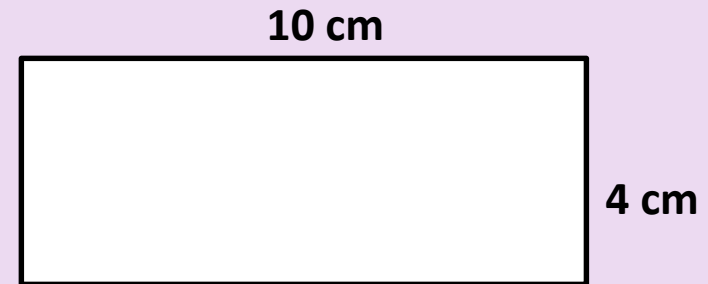
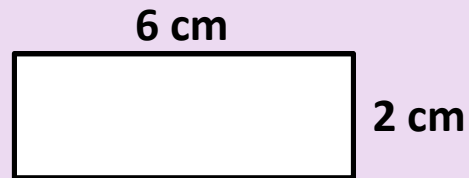
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Are these rectangles similar? 😊 = yes, 😞 = no, 😐 = not sure



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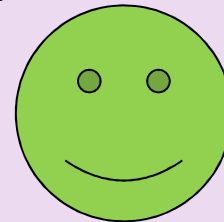
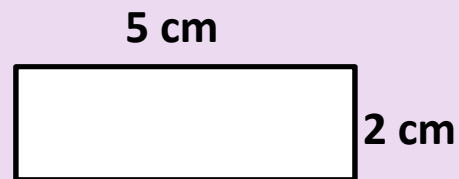
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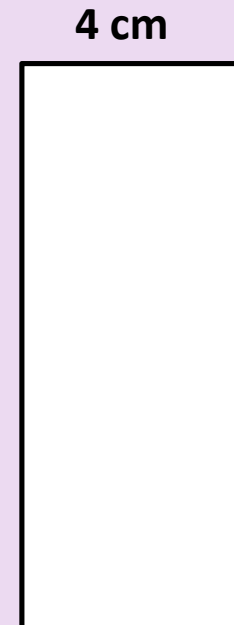
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10 cm



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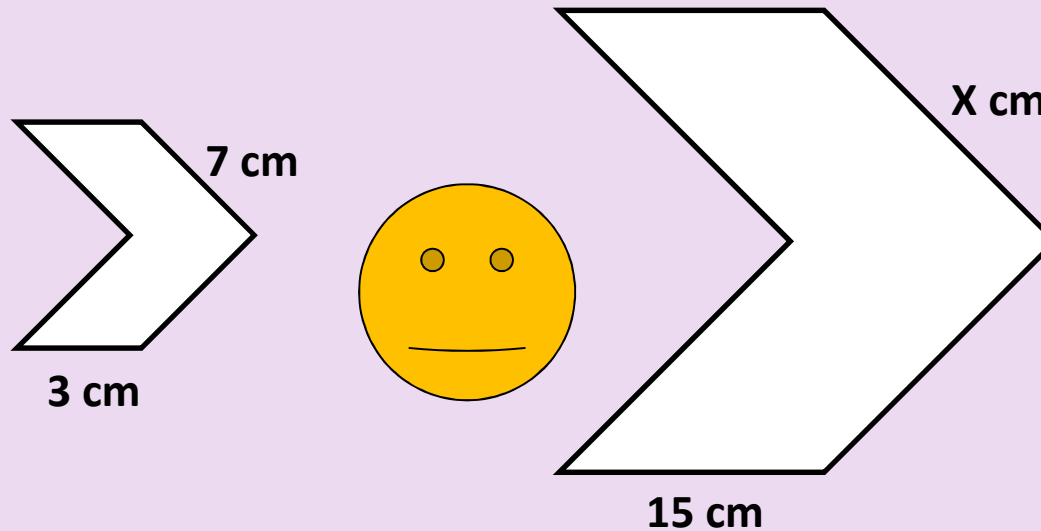
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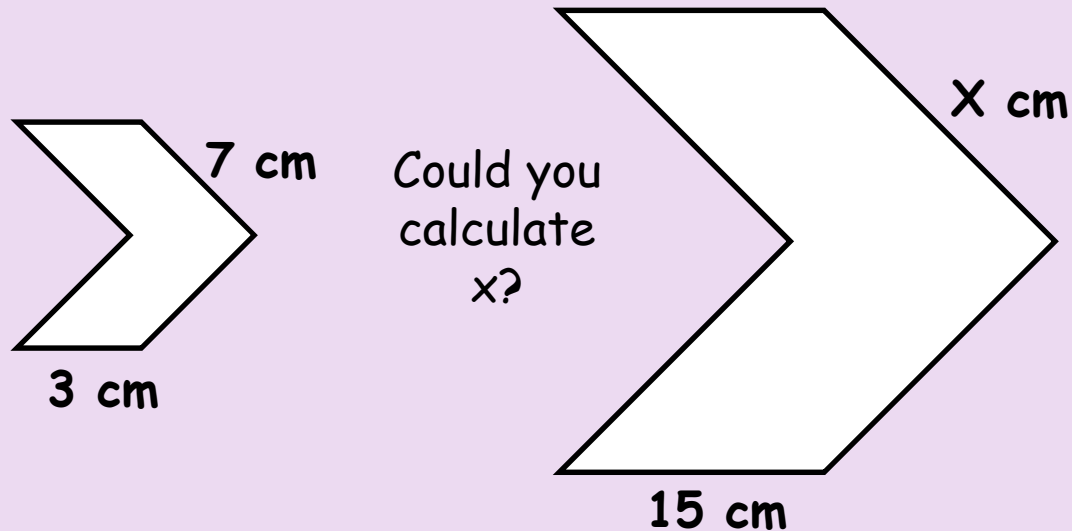
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What about if I tell you they ARE mathematically similar.



Keywords

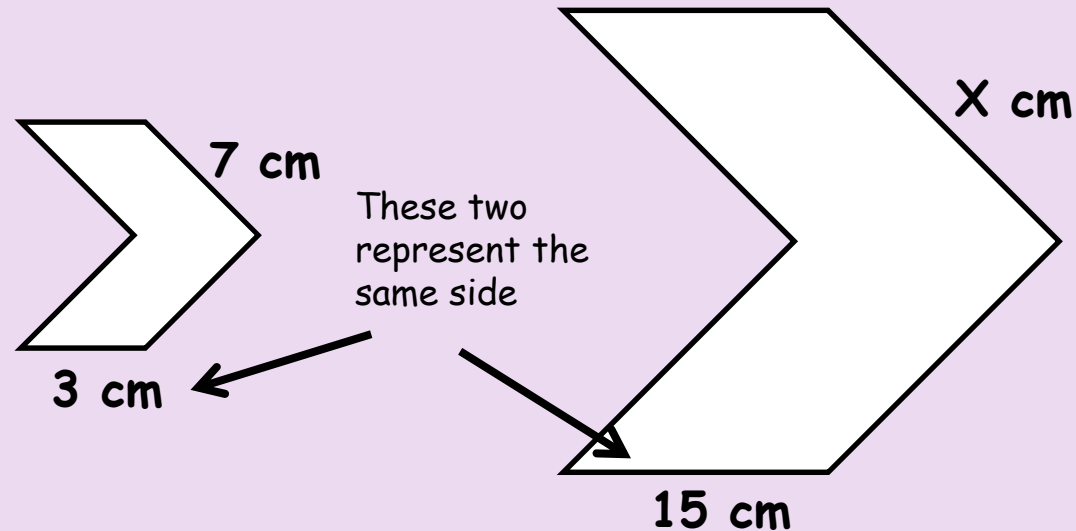
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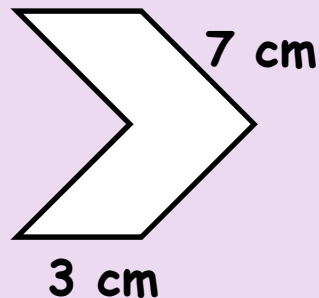
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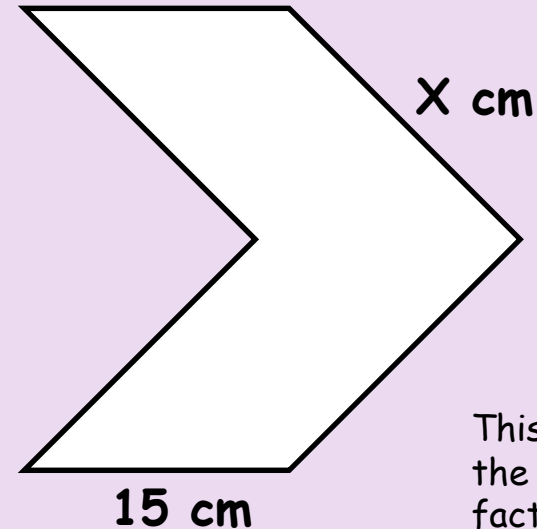


Write as a ratio

3 : 15

Simplify

1 (5)



This number is the scale factor

Keywords

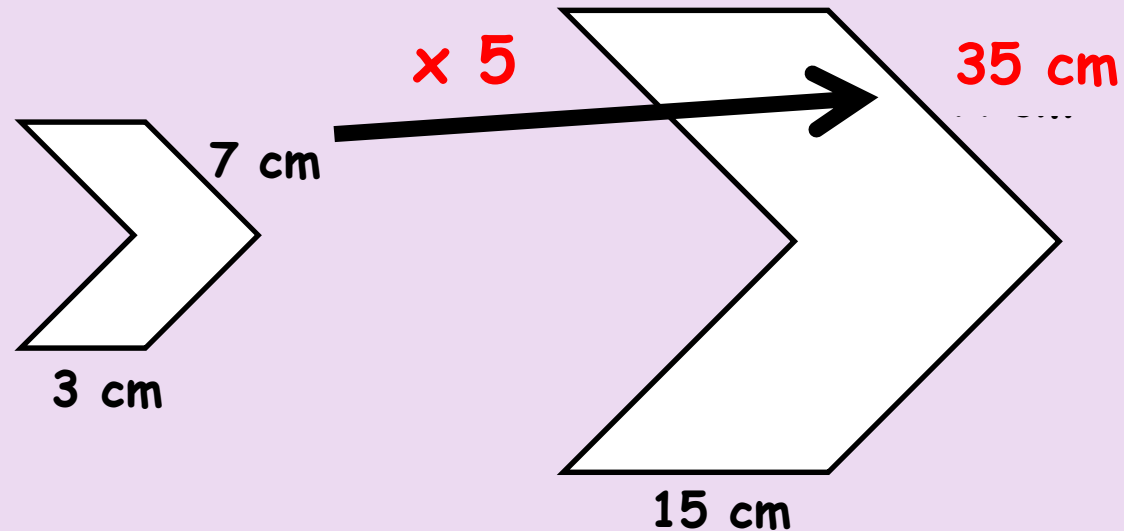
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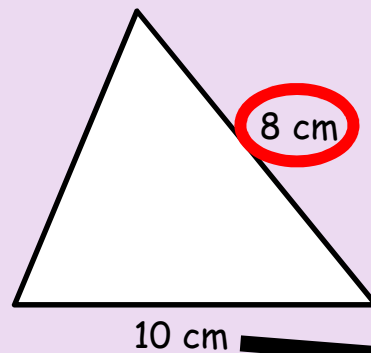
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These two shapes are mathematically similar.
Calculate x .

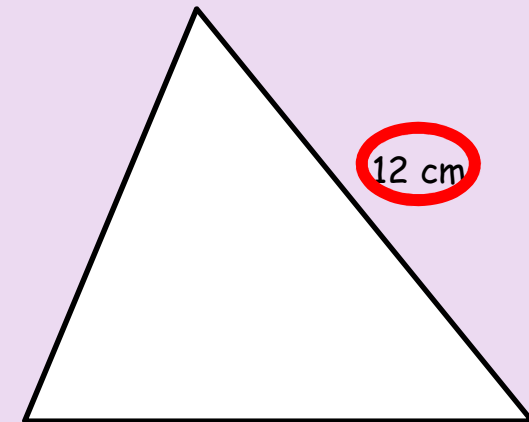


Write as a ratio

8 : 12

Simplify

1 : 1.5



$\times 1.5$

15 cm

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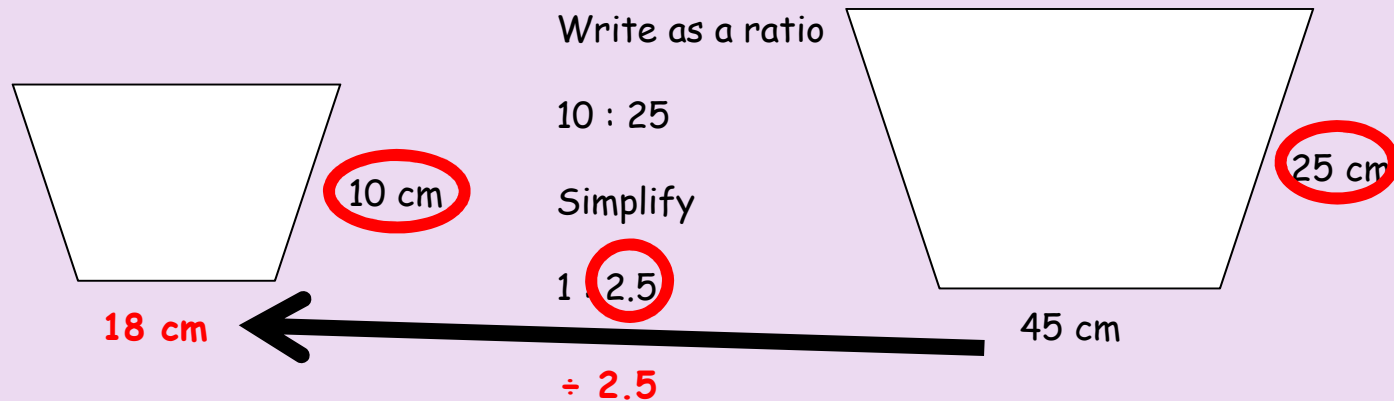
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