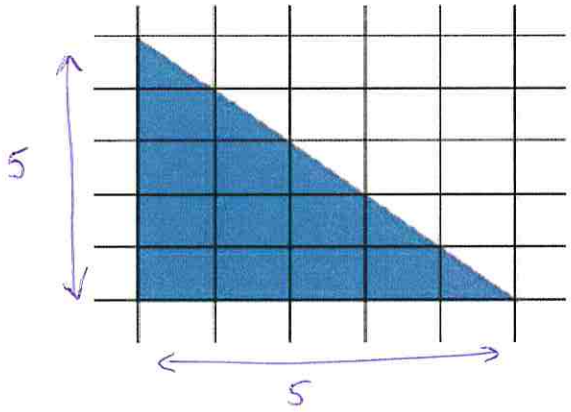


Simon says the area of this triangle is $13cm^2$

Is Simon correct?

If not, work out the correct answer and explain his mistake.

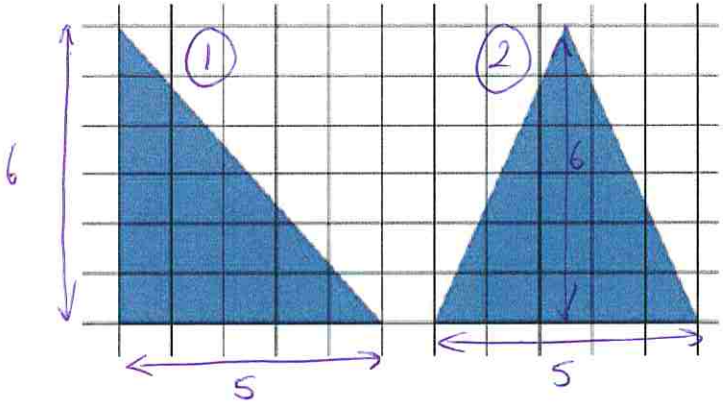
$5 \times 5 = 25$

$25 \div 2 = 12.5$

Simon is not correct as the area is $12.5\ cm^2$.

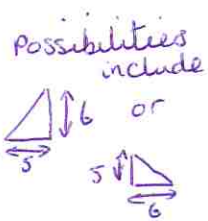
What is the same about these two triangles?

What is different?



Can you create a different right angled triangle with the same area?

Possibilities include:



Triangle 1 → $6 \times 5 = 30$. $30 \div 2 = 15$.
Area = $15\ cm^2$.

Triangle 2 → $6 \times 5 = 30$. $30 \div 2 = 15$
Area = $15\ cm^2$.

Both triangles have the same area. Difference could be that one is a right-angled triangle whereas the other is an isosceles triangle.