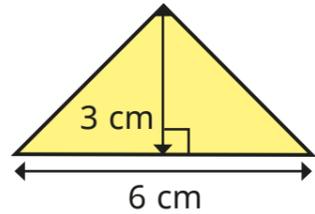


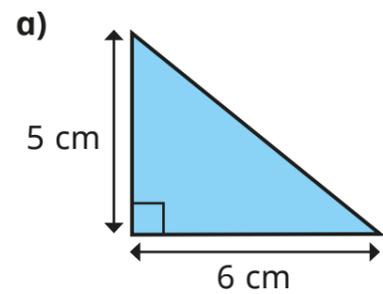
# Area of any triangle

1 Calculate the area of the triangle.

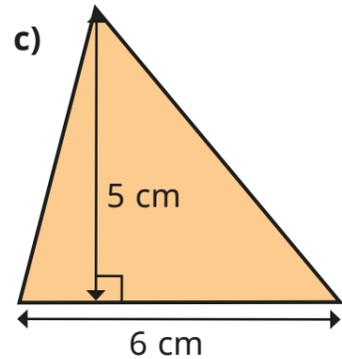


cm<sup>2</sup>

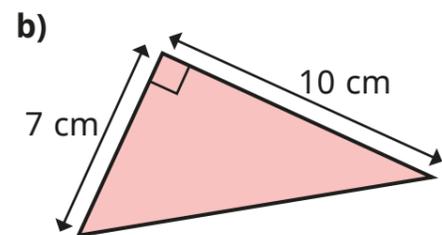
2 Calculate the areas of the triangles.



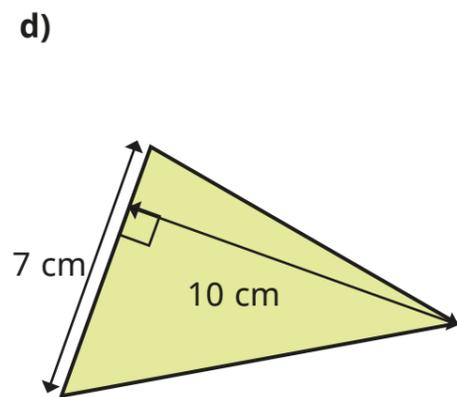
cm<sup>2</sup>



cm<sup>2</sup>

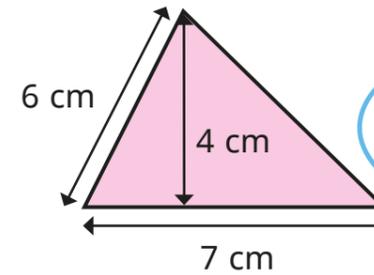


cm<sup>2</sup>

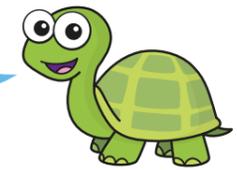


cm<sup>2</sup>

3 Tiny is working out the area of the triangle.



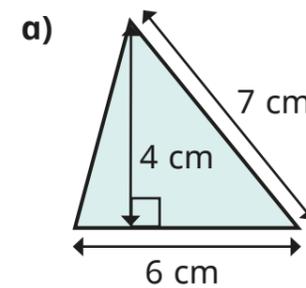
To find the area,  
I will work out  
 $7 \times 6 \div 2 = 21 \text{ cm}^2$



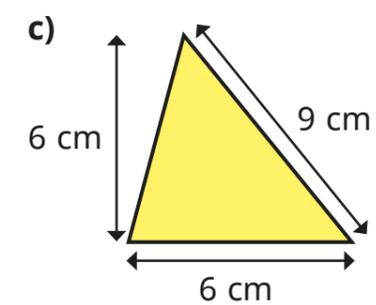
Do you agree with Tiny? \_\_\_\_\_

Explain your answer.

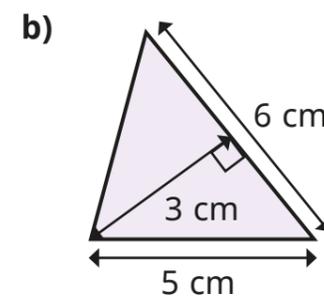
4 Identify the base,  $b$ , and perpendicular height,  $h$ , on each triangle.



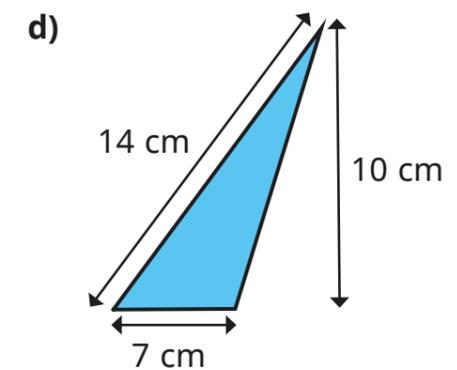
$b =$   cm  
 $h =$   cm



$b =$   cm  
 $h =$   cm



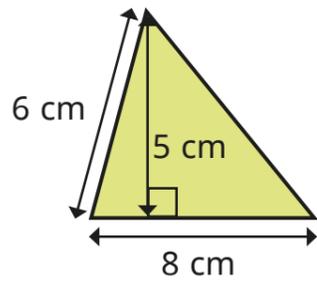
$b =$   cm  
 $h =$   cm



$b =$   cm  
 $h =$   cm

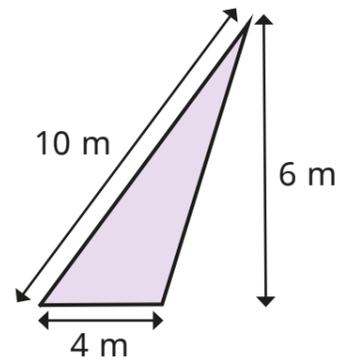
5 Calculate the areas of the triangles.

a)



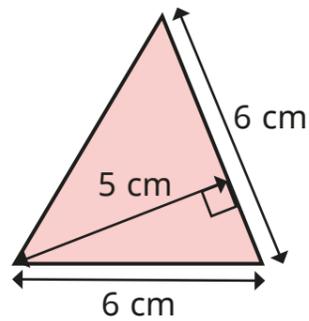
area =  cm<sup>2</sup>

d)



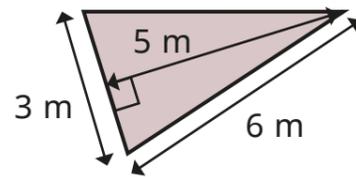
area =  m<sup>2</sup>

b)



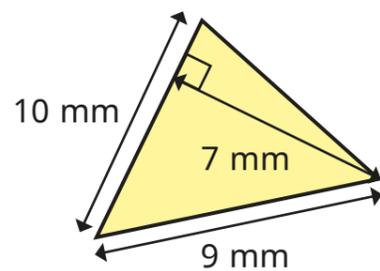
area =  cm<sup>2</sup>

e)



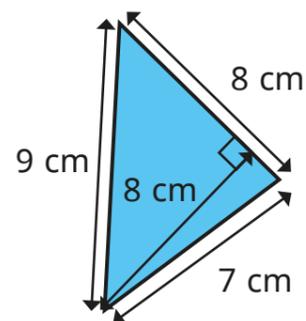
area =  m<sup>2</sup>

c)



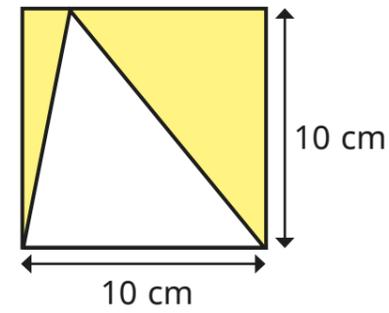
area =  mm<sup>2</sup>

f)



area =  cm<sup>2</sup>

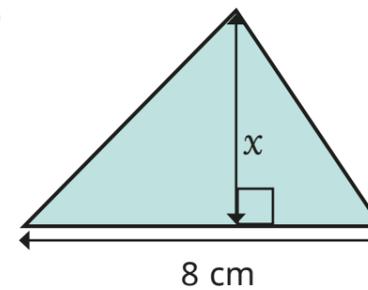
6 Find the area of the shaded region.



area =  cm<sup>2</sup>

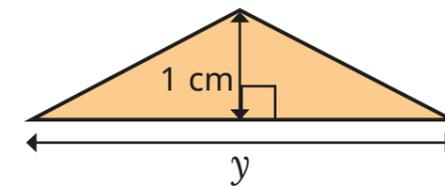
7 The area of each triangle is 12 cm<sup>2</sup>. Work out the lengths marked  $x$  and  $y$ .

a)



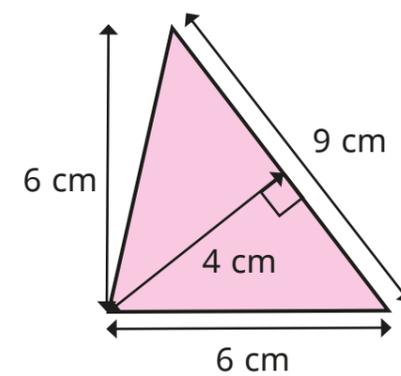
$x =$   cm

b)



$y =$   cm

8 Show two ways you can work out the area of the triangle.



Compare answers with a partner.

