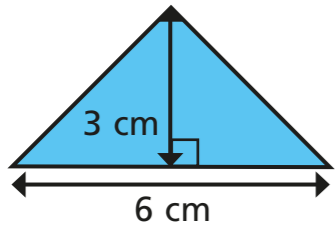


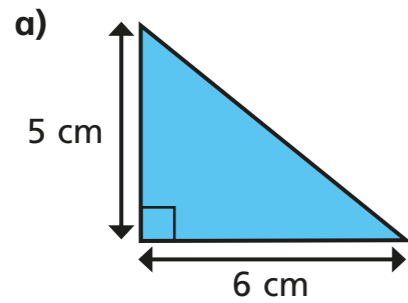
# Area of a triangle (3)

1 Calculate the area of the triangle.

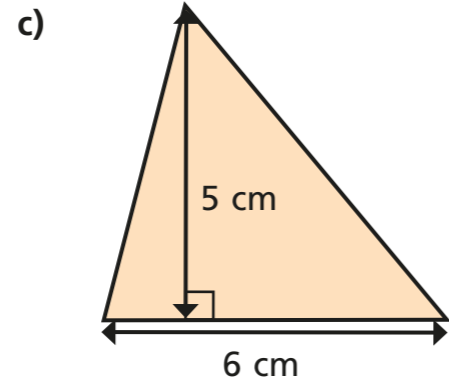


area =  cm<sup>2</sup>

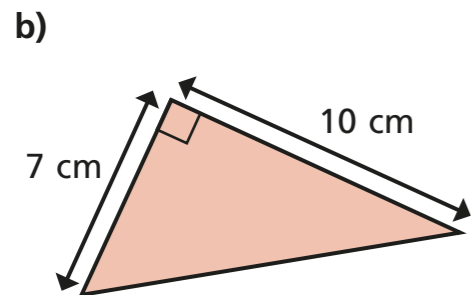
2 Calculate the area of the triangles.



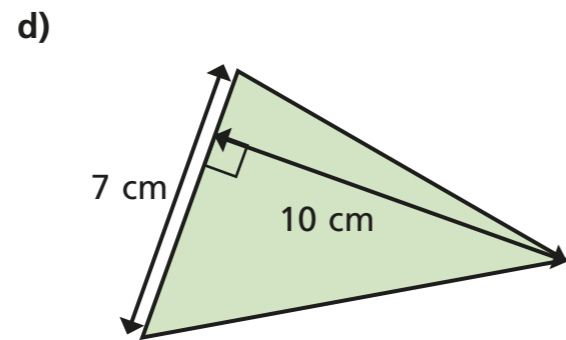
area =  cm<sup>2</sup>



area =  cm<sup>2</sup>

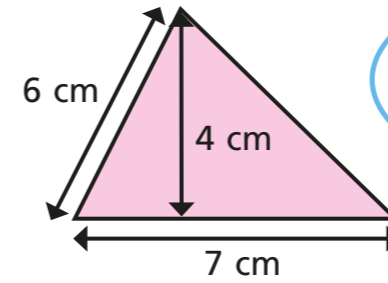


area =  cm<sup>2</sup>

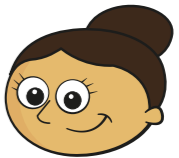


area =  cm<sup>2</sup>

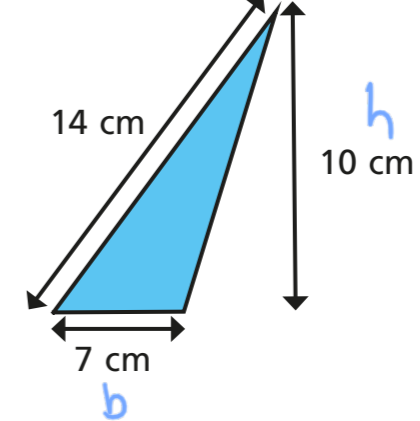
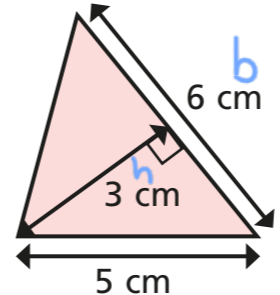
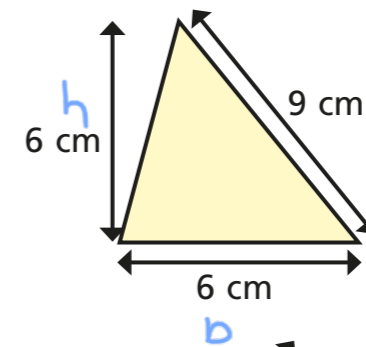
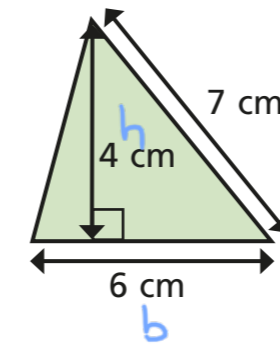
3 What mistake has Dora made?



To find the area you do  
 $7 \times 6 \div 2 = 21 \text{ cm}^2$



4 Label the base of each triangle *b*.  
Label the perpendicular height *h*.



5 Are the statements always, sometimes or never true?

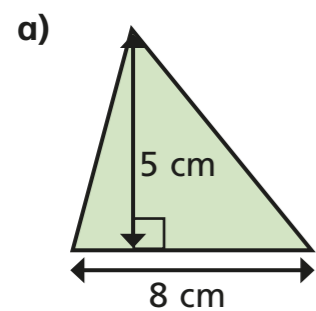
The side at the bottom of a triangle is the base.

Sometimes

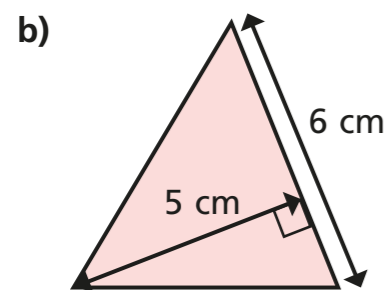
The perpendicular height is equal to the vertical height.

Sometimes

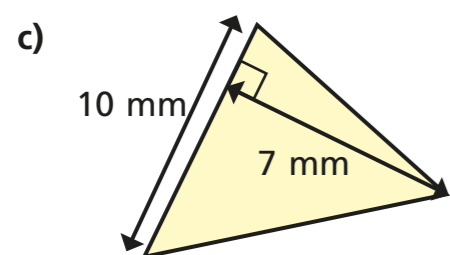
6 Calculate the area of the triangles.



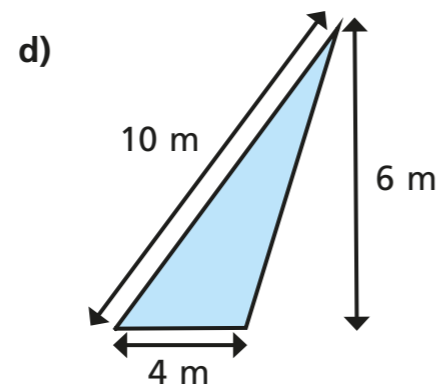
area =  cm<sup>2</sup>



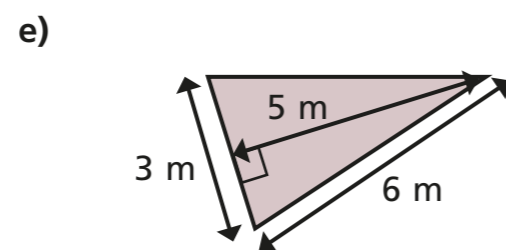
area =  cm<sup>2</sup>



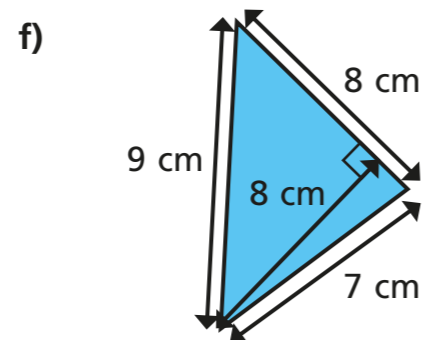
area =  mm<sup>2</sup>



area =  m<sup>2</sup>

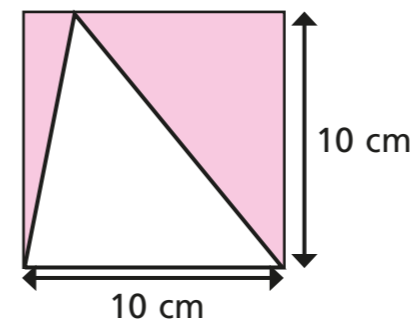


area =  m<sup>2</sup>



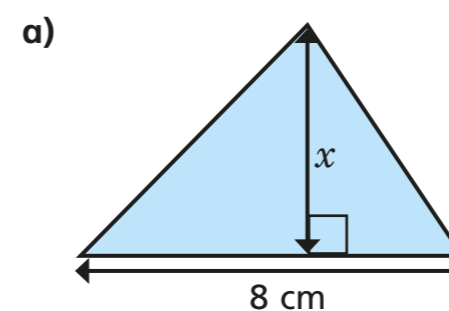
area =  cm<sup>2</sup>

7 Find the area of the shaded region.

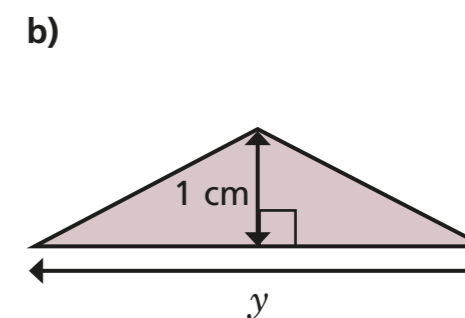


area =  cm<sup>2</sup>

8 The area of each triangle is 12 cm<sup>2</sup>. Find the missing lengths.

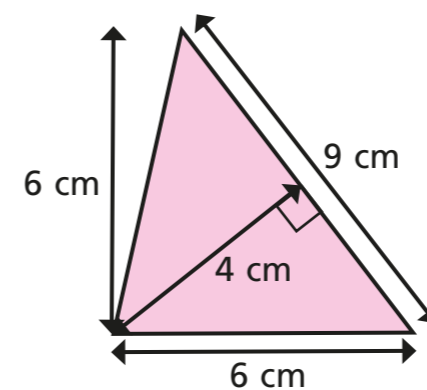


$x =$  cm



$y =$  cm

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



$\frac{9 \times 4}{2} = 18 \text{ cm}^2$

$\frac{6 \times 6}{2} = 18 \text{ cm}^2$

Compare answers with a partner.