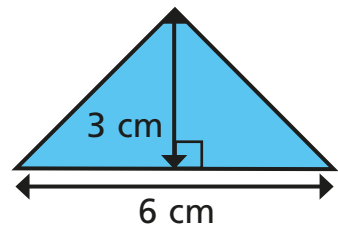


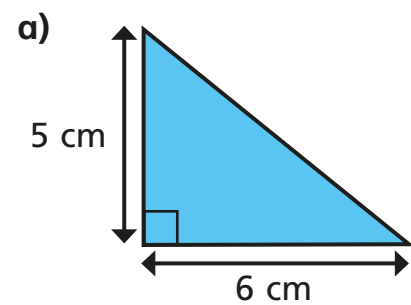
# Area of a triangle (3)

- 1 Calculate the area of the triangle.

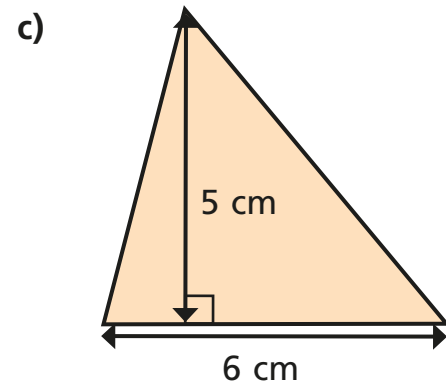


area = 9 cm<sup>2</sup>

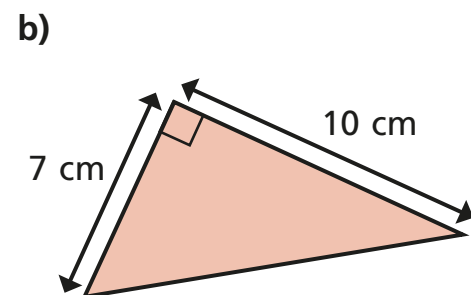
- 2 Calculate the area of the triangles.



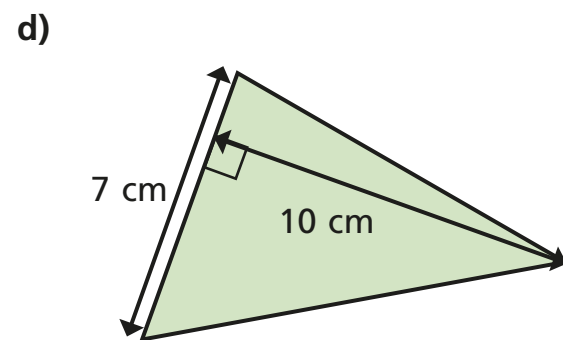
area = 15 cm<sup>2</sup>



area = 15 cm<sup>2</sup>

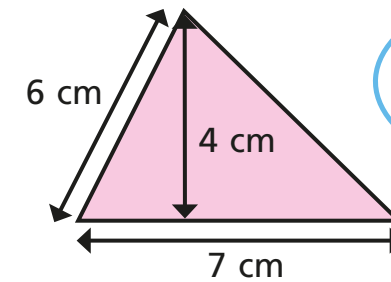


area = 35 cm<sup>2</sup>

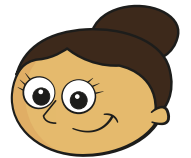


area = 35 cm<sup>2</sup>

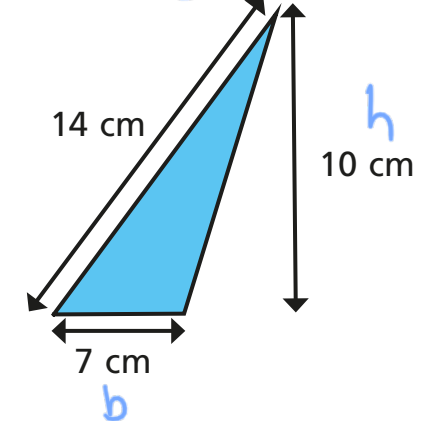
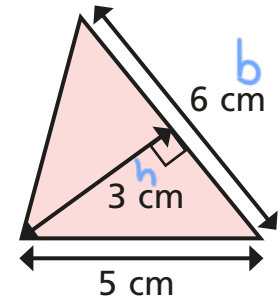
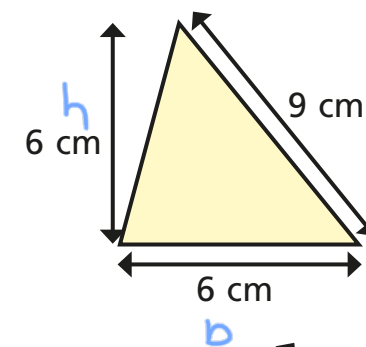
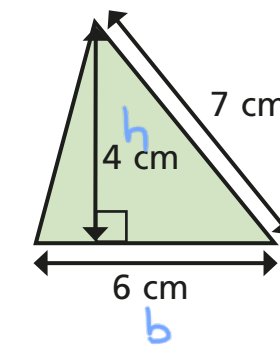
- 3 What mistake has Dora made?



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?

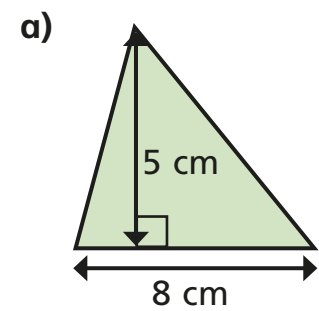
The side at the bottom of a triangle is the base.

Sometimes

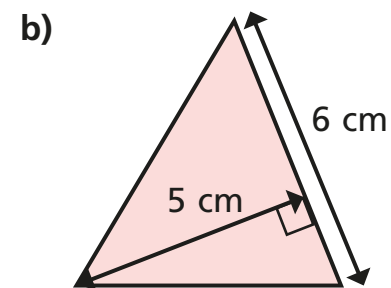
The perpendicular height is equal to the vertical height.

Sometimes

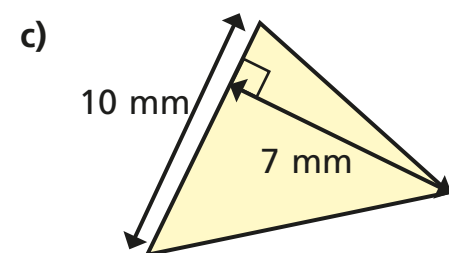
6 Calculate the area of the triangles.



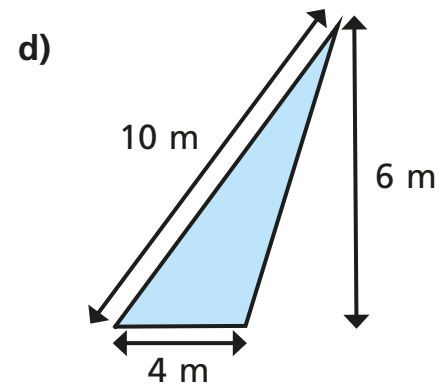
area = 20 cm<sup>2</sup>



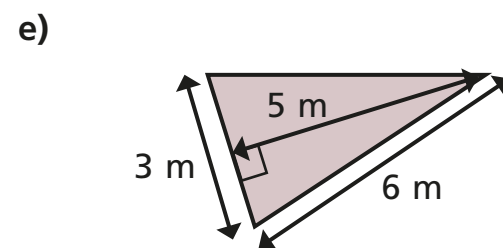
area = 15 cm<sup>2</sup>



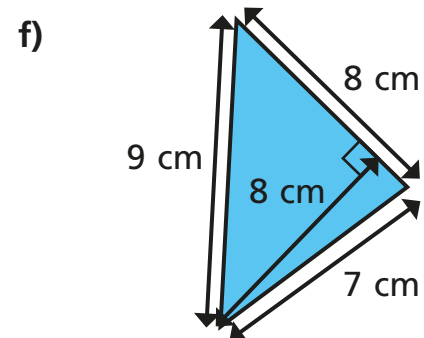
area = 35 mm<sup>2</sup>



area = 12 m<sup>2</sup>

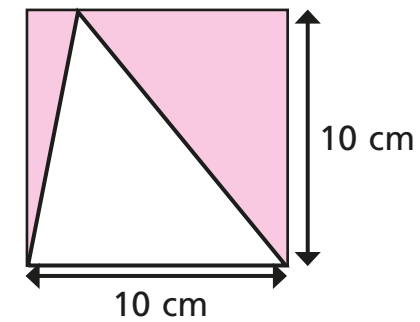


area = 7.5 m<sup>2</sup>



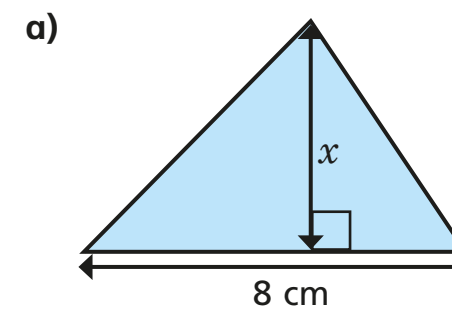
area = 32 cm<sup>2</sup>

7 Find the area of the shaded region.

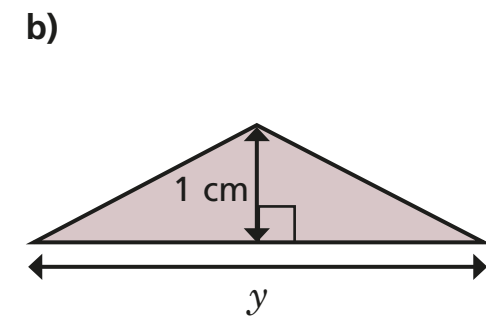


area = 50 cm<sup>2</sup>

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

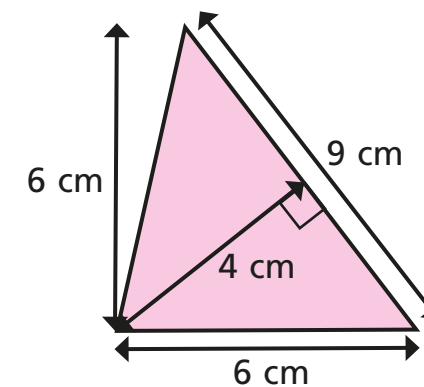


x = 3 cm



y = 24 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.

