

Year 6

Tuesday 30th June 2020

Maths

LO: to calculate the area of triangles



**The video of this lesson is available here – Summer
Term – Week 9 - lesson 2**

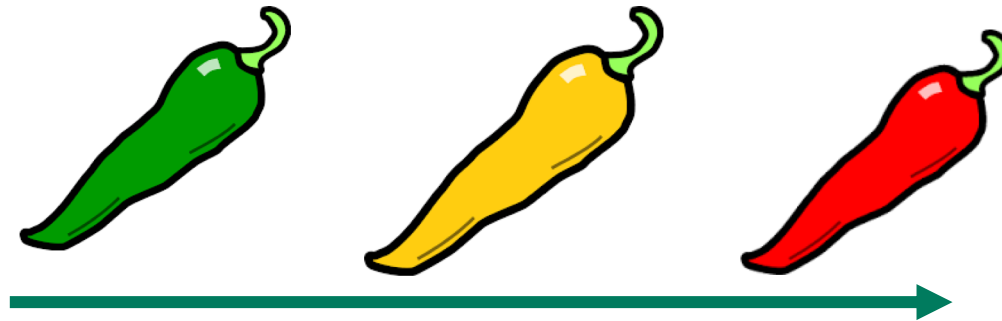
**This link works on the printable version and is
available above the PowerPoint.**

**You will need to watch this video to learn the
skills you need in this lesson.**



The independent work continues on the next two slides. There are 8 questions and 1 extension.

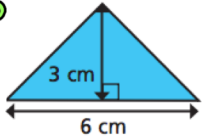
(Español - ochos preguntas y una extensión)



*The chili suggests a good starting point depending on how confident you are feeling.
If you have time you can complete all the independent work!*

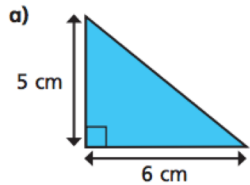
Area of a triangle (3)

1 Calculate the area of the triangle.

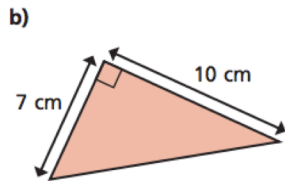


area = cm²

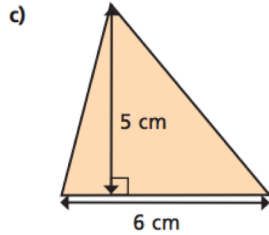
2 Calculate the area of the triangles.



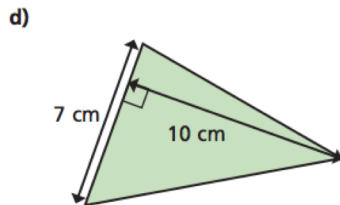
area = cm²



area = cm²

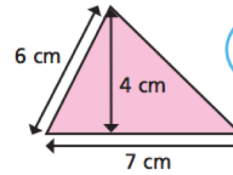


area = cm²



area = cm²

3 What mistake has Dora made?

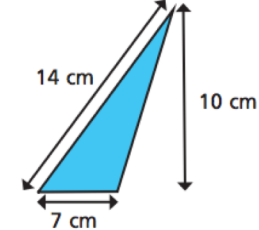
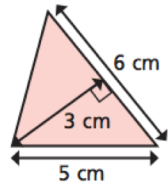
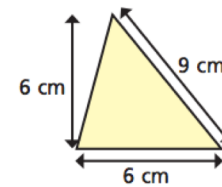
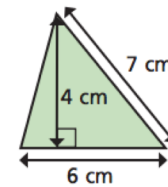


To find the area you do
 $7 \times 6 \div 2 = 21 \text{ cm}^2$



4 Label the base of each triangle b .

Label the perpendicular height h .

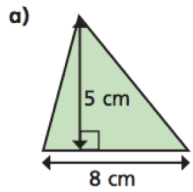


5 Are the statements always, sometimes or never true?

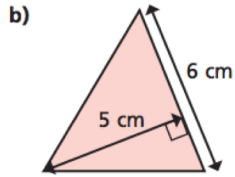
The side at the bottom of a triangle is the base.

The perpendicular height is equal to the vertical height.

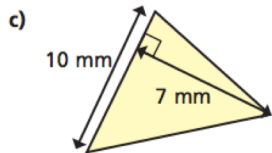
6 Calculate the area of the triangles.



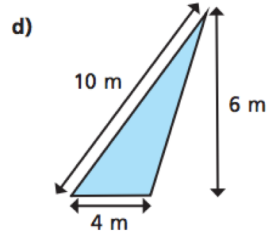
area = cm²



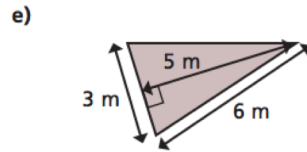
area = cm²



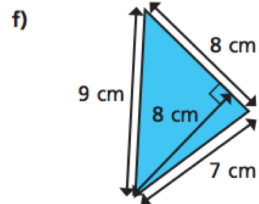
area = mm²



area = m²

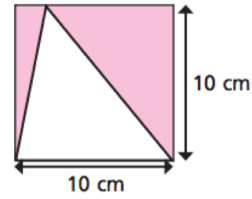


area = m²



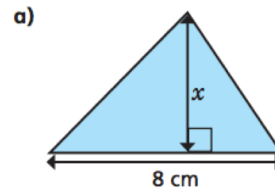
area = cm²

7 Find the area of the shaded region.

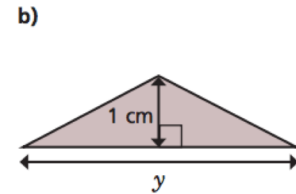


area = cm²

8 The area of each triangle is 12 cm². Find the missing lengths.

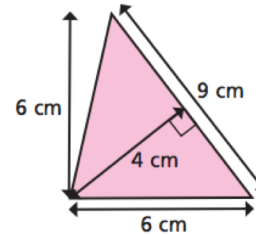


x = cm

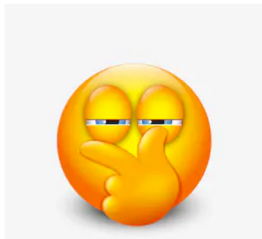
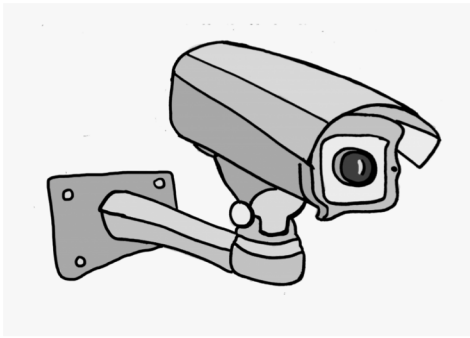


y = cm

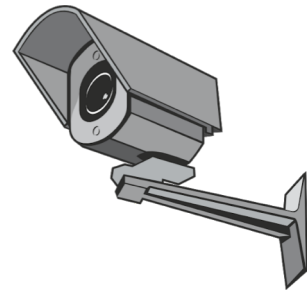
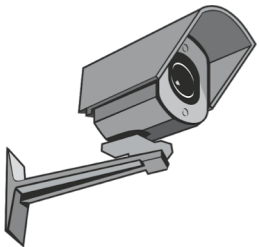
Ext: Show two ways you can work out the area of the triangle.



Compare answers with a partner.

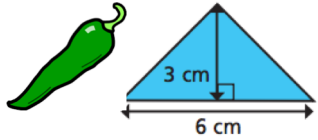


The next two slides contain the answers should you wish to check you work and reflect on what you understand.



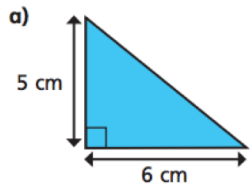
Area of a triangle (3)

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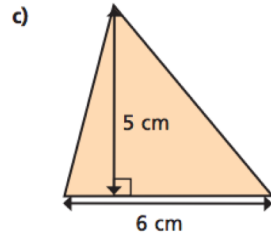


area = cm²

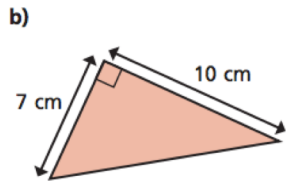
2 Calculate the area of the triangles.



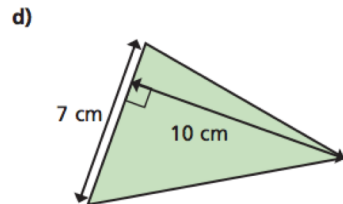
area = cm²



area = cm²

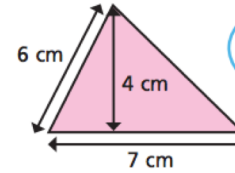


area = cm²



area = cm²

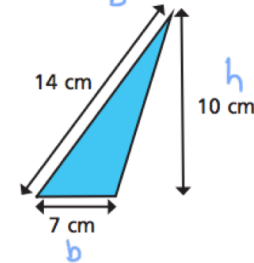
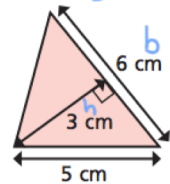
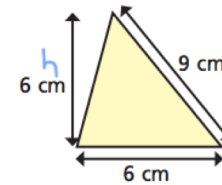
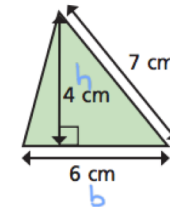
3 What mistake has Dora made?



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



4 Label the base of each triangle *b*.



5 Are the statements always, sometimes or never true?

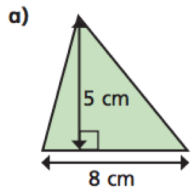
The side at the bottom of a triangle is the base.

Sometimes

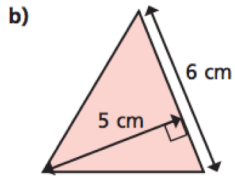
The perpendicular height is equal to the vertical height.

Sometimes

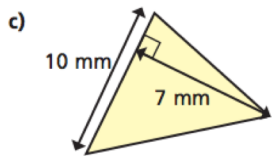
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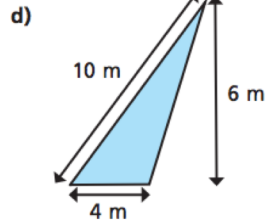
area = cm²



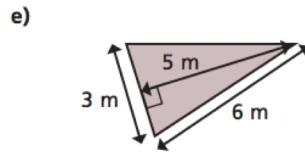
area = cm²



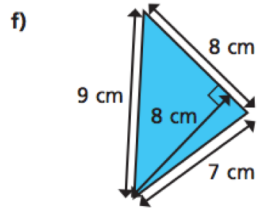
area = mm²



area = m²

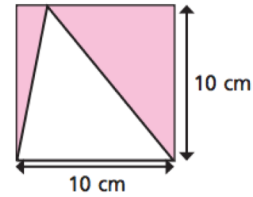


area = m²



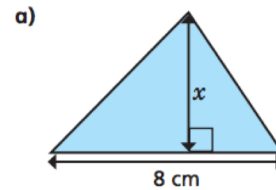
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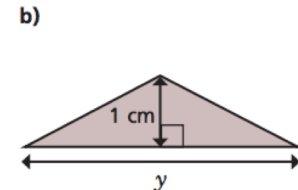


area = cm²

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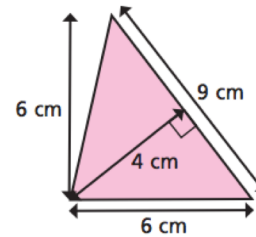
x = cm



y = cm

Ext:

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.