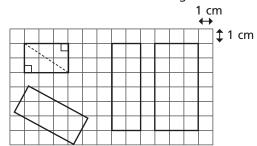
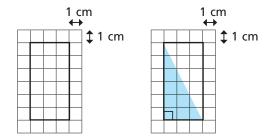
Area of a triangle (2)



1 Divide each rectangle into two right-angled triangles.
The first one has been done for you.



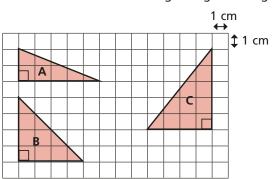
2 a) Calculate the area of the rectangle and the triangle.



b) Explain how you worked out the area of the right-angled triangle.

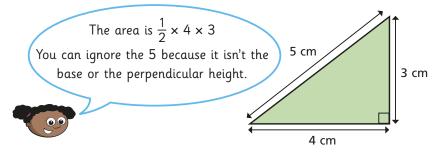


Calculate the areas of the right-angled triangles.



4) Whitney is calculating the area of the triangle using the formula.

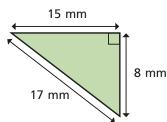
Area =
$$\frac{1}{2}$$
 × base × perpendicular height



Do you agree with Whitney? Talk about it with a partner.



Insert the correct numbers into the formula to calculate the area of the triangle. Give units with your answer.

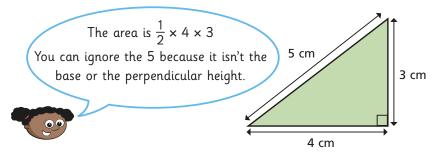


Area of a triangle (2)



4 Whitney is calculating the area of the triangle using the formula.

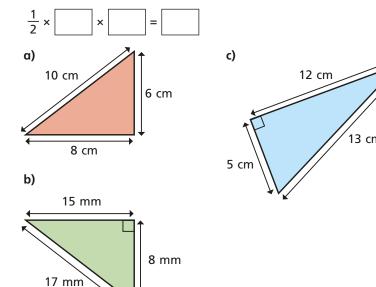
Area = $\frac{1}{2}$ × base × perpendicular height



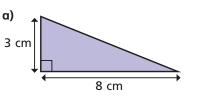
Do you agree with Whitney? Talk about it with a partner.

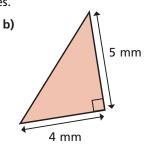


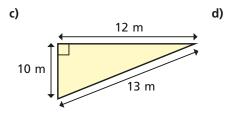
Insert the correct numbers into the formula to calculate the area of the triangle. Give units with your answer.

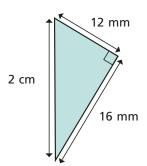


6 Calculate the areas of the triangles.

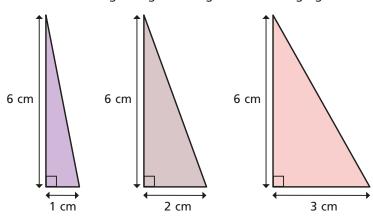








7 The width of the right-angled triangles is increasing by 1 cm.



Investigate the pattern for the areas.

What happens to the pattern if the length **and** width increase?



