Problems of the Day *Day 15 Answers*

1 Yasmin has a large blue square piece of paper.

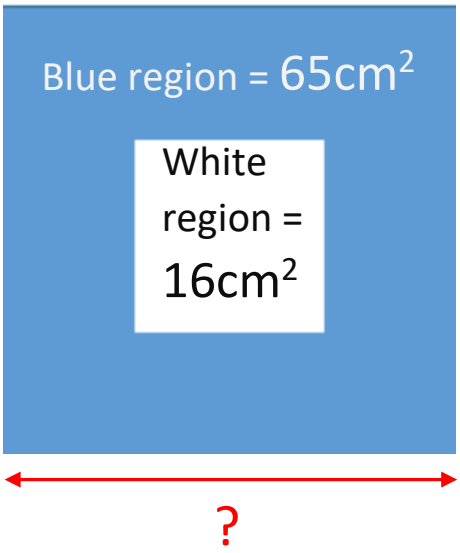
She cuts out a 4 cm x 4 cm square from the centre.



The area of the blue region is 65 cm^2.
What is the length of the large blue square?

If the small square is 4cm x 4cm, the area must be 16cm^2.

I have marked every thing I know on my diagram and marked what I want to find out with a '?'



I can see that the total area must be 65cm^2+16cm^2 = **81cm^2**

The shape is a square so the length of each side is the same.

The area of the whole shape (**81cm^2**) is found by multiplying the length by the width. The shape is a square so the length of each side is the same.

The length of the side must be **9cm.**

2 Work out the value of each symbol.



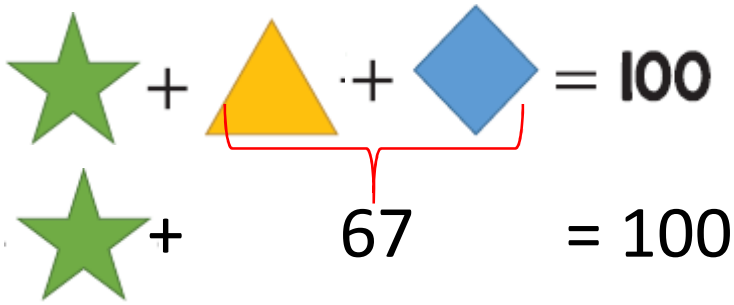




We know:



We also know that the triangle and the square total 67.



So the star must be worth 33.

We also know that:



So the square must be worth 15.

Writing everything we know:



So the value of the shapes is as follows:

