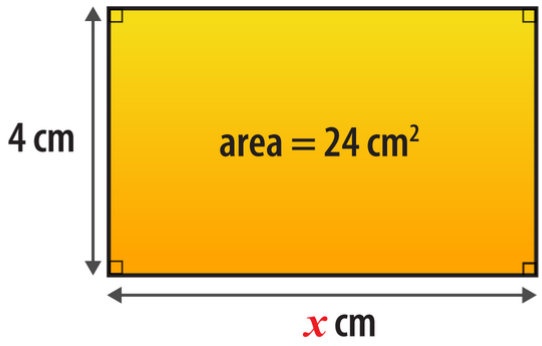
Solving area problems

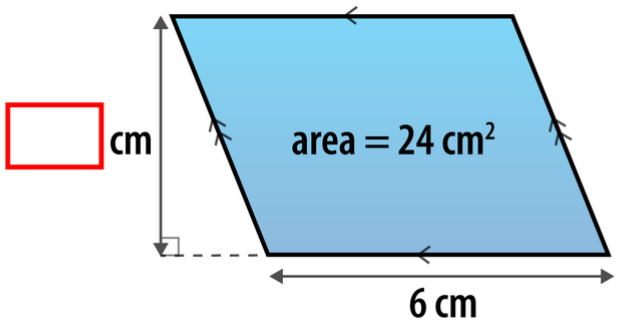
numerise

1: What is the value of x?



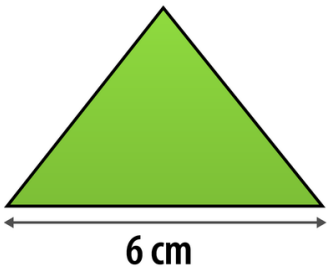
Not to scale

2: Work out the value that should go in the box.



Not drawn accurately

3: The **area** of this triangle is $12\ \text{cm}^2$. What is its height?



Not to scale

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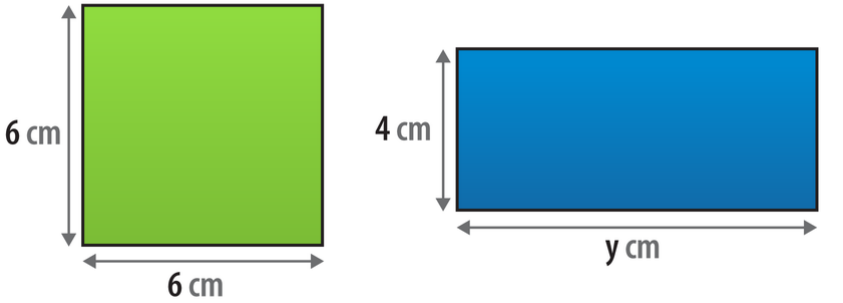
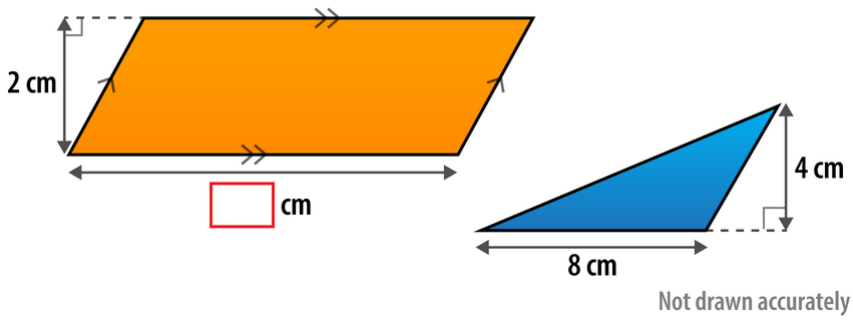
4: The square and the rectangle shown below have the **same area**. Work out the value of y.



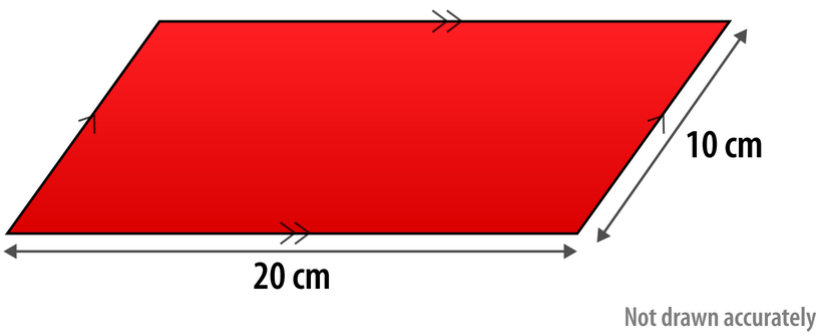
5: The parallelogram and the triangle below have the **same area**.

What number should go in the box?



6: Is it possible to find the area of the parallelogram below with the information given?

If it **is possible**, then work out the area of the parallelogram.
If it **is not possible**, then write a sentence to explain why.

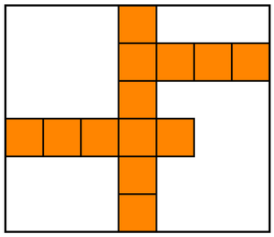


Solving area problems

numerise

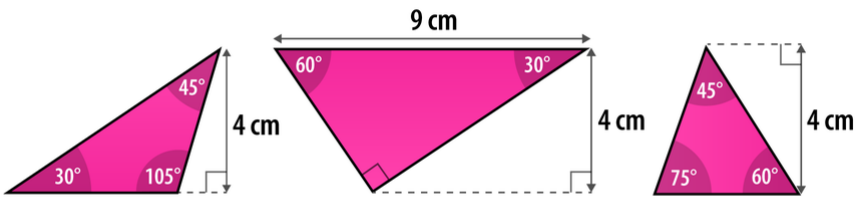
7: Each of the small shaded squares inside the rectangle below has an area of $9\,\text{cm}^2$.

What is the area of the whole rectangle?



Not actual size

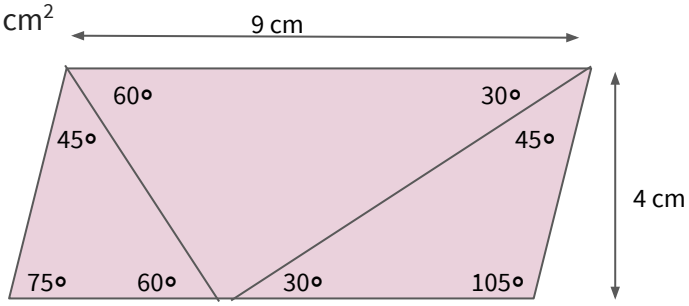
8: Orlagh has three paper triangles, shown below.
a) Draw a sketch in your book to show how she could join them together to form a parallelogram.
b) Find the **area** of the parallelogram.



Not drawn accurately

Challenge:

1. 6 cm
2. 4 cm
3. 4 cm
4. 9 cm
5. 8 cm
6. It is not possible to find the area of the parallelogram as we have not been given the perpendicular height
7. 378 cm^2
8. a)



b) 36 cm^2