

SCORE
A

Geometry

With Classified
answer book

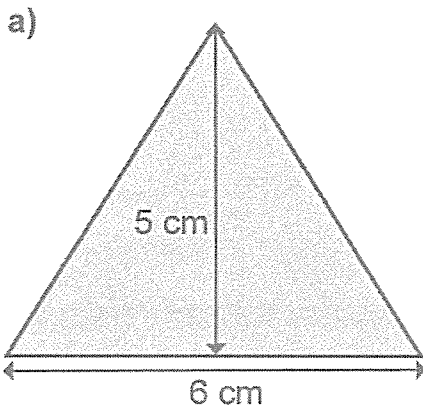
8

Eng. Magda El-Labban

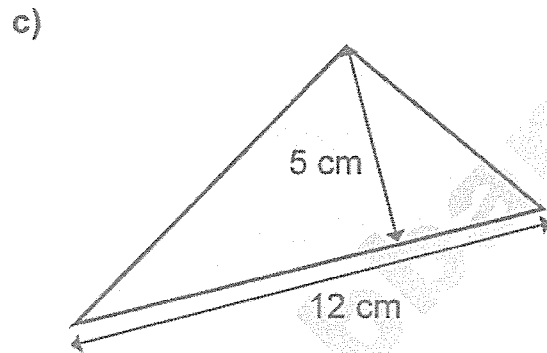
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6- Calculate the area of triangles, rectangles, and parallelograms

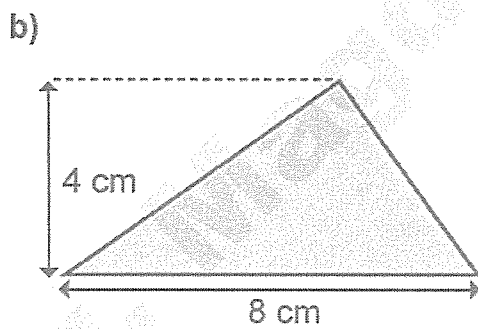
1. Find the areas of the triangles.



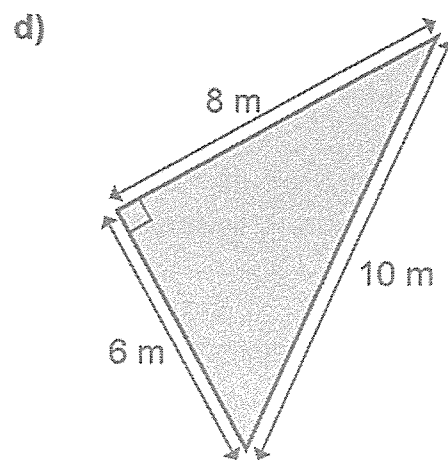
cm²



cm²



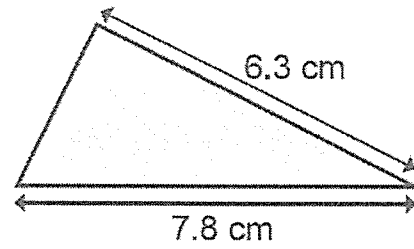
cm²



cm²

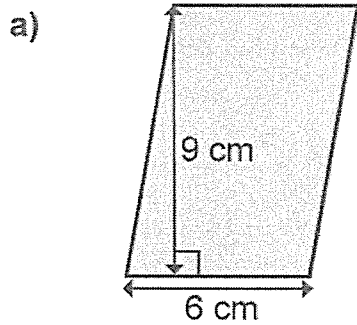
2. Eva is working out the area of the triangle.

The base is 7.8 cm and the length of one side is 6.3 cm. I multiply and then divide by 2

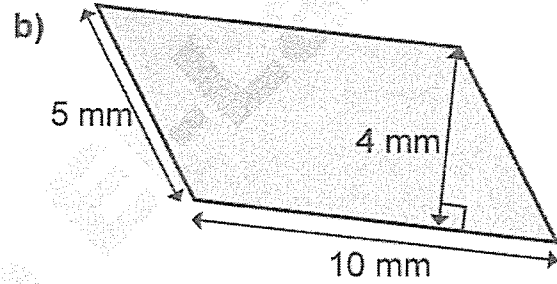


What mistake has Eva made?

3. Find the areas of the parallelograms.

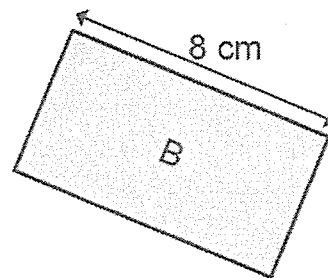
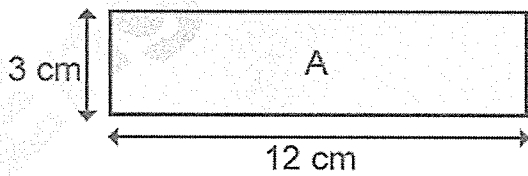


cm²



mm²

4. The two rectangles have the same area.

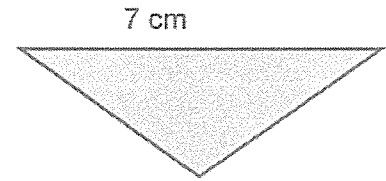


Work out the width of rectangle B.

cm

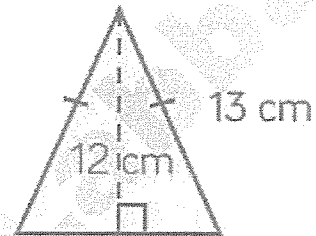
5. The area of this triangle is 21 cm^2 .

The perpendicular height of this triangle is 3 cm .
Explain your answer.

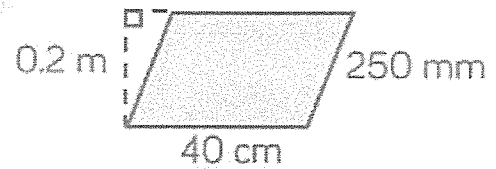


6. The perimeter of this isosceles triangle is 0.36 m .

Show that the area of the triangle is 60 cm^2 .

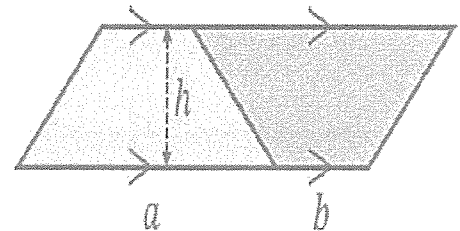


7. Calculate the area of the parallelogram.

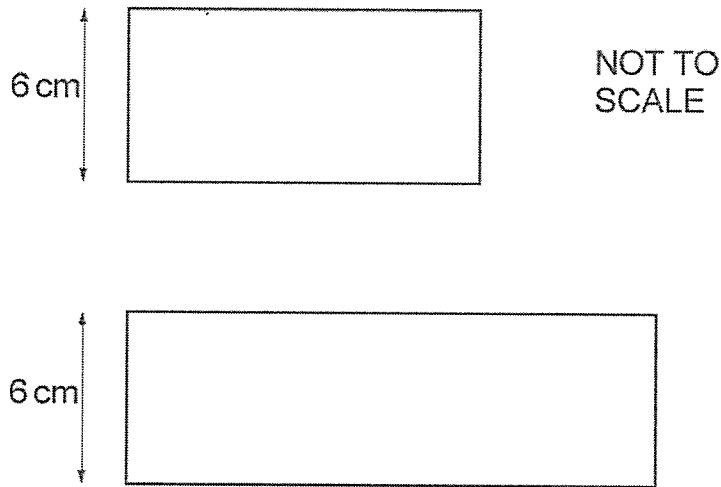


8. Dora places two congruent trapezia next to each other:

What shape has she made?



9. The diagram shows two rectangles that both have a width of 6 cm.

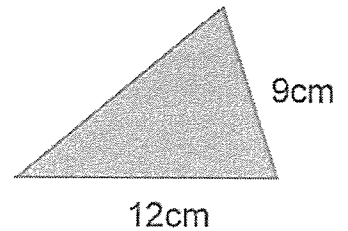


The difference between the perimeters of the two rectangles is 10 cm. Calculate the difference between the areas of the two rectangles.

.....cm²

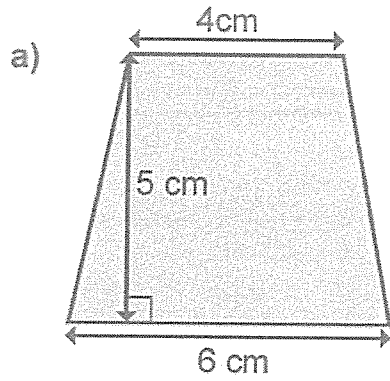
10. Jamie has worked out the area of this triangle.
Do you agree with him?
Try to explain.

$$\begin{aligned} 12 \times 9 &= 108 \\ 108 \div 2 &= 54 \\ \text{Area} &= 54\text{cm}^2 \end{aligned}$$

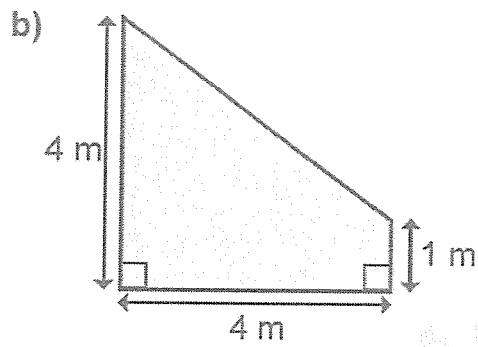


7- Area of trapezium

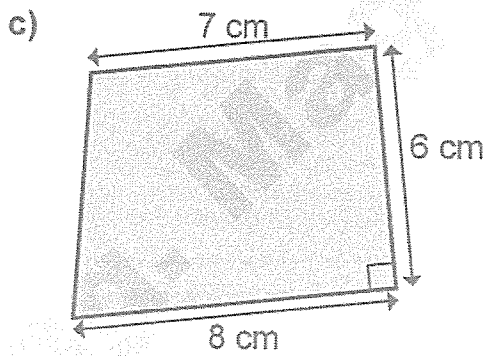
1. Find the area of each trapezium.



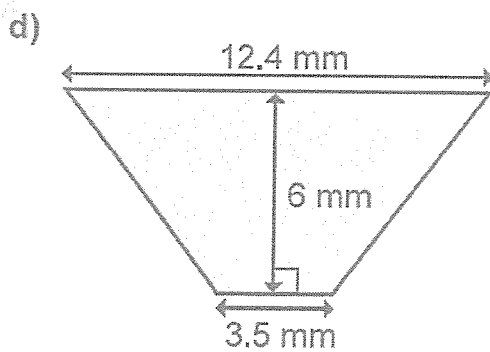
cm^2



m^2



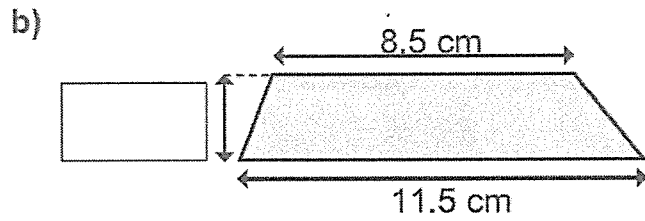
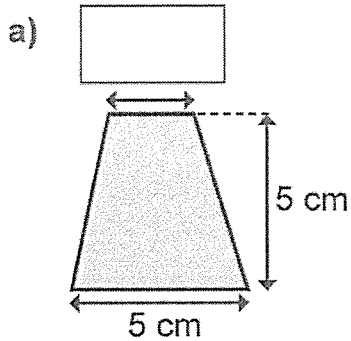
cm^2



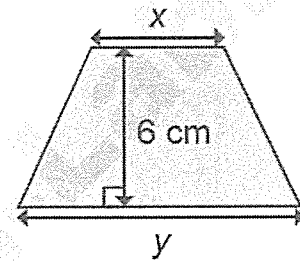
mm^2

2. The area of each trapezium is 20 cm^2

Find and label the missing lengths.



3. The area of the trapezium is 24 cm^2

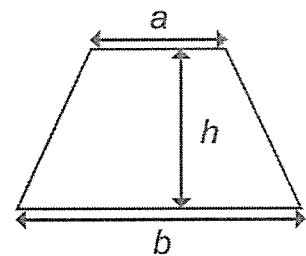


Write three possible pairs of values of x and y .

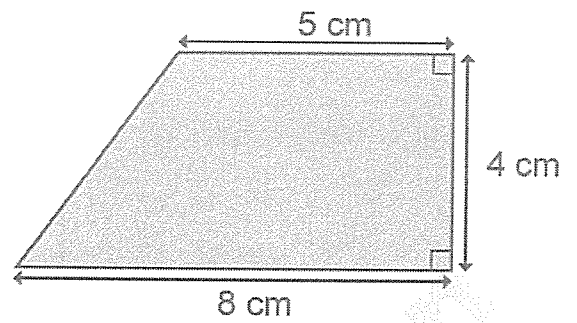
$x =$ <input type="text"/> cm	$y =$ <input type="text"/> cm
$x =$ <input type="text"/> cm	$y =$ <input type="text"/> cm
$x =$ <input type="text"/> cm	$y =$ <input type="text"/> cm

4. Prove the statement.

The formula for a trapezium is equal to the area of a parallelogram when the lengths of a and b are equal.



5. Amir and Rosie are working out the area of this trapezium.



I will divide the shape into a rectangle and triangle, and work out the area of each one.

Amir

I will just use the formula for the area of a trapezium.

Rosie

a) Use Amir's method to find the area of the trapezium.

cm²

b) Use Rosie's method to find the area of the trapezium.

cm²