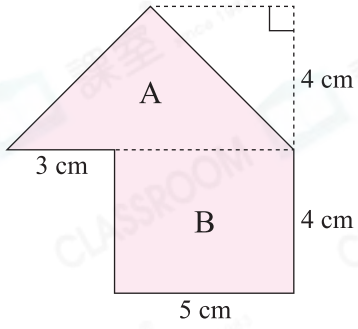
6 Area of Polygons

Date: _____

Mark: _____

Find the area of the following polygons.

1.



Area of A: _____ cm^2

Area of B: _____ cm^2

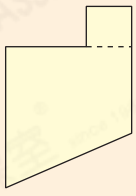
Area of the whole figure:

_____ cm^2

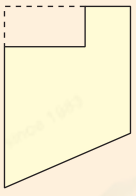
Reminder

You may use different methods to find the area of polygons.

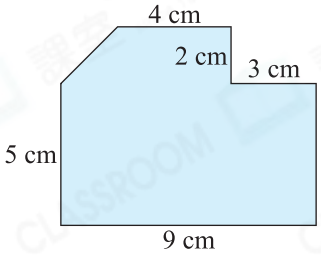
E.g. Dissection method



Filling method

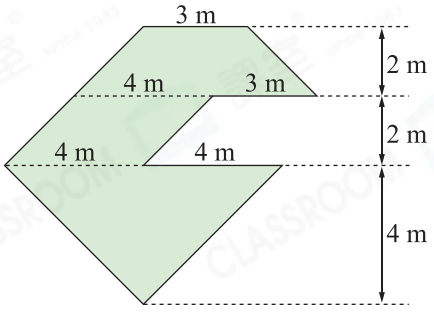


2.



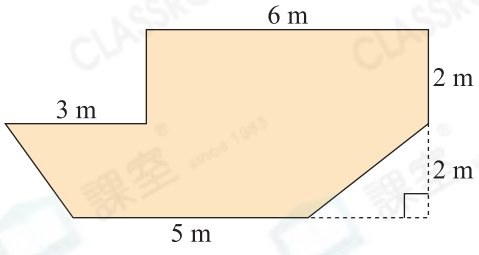
_____ cm^2

3.



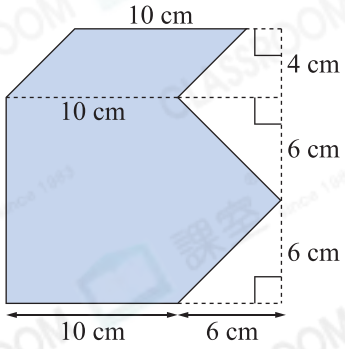
_____ m^2

4.



_____ m^2

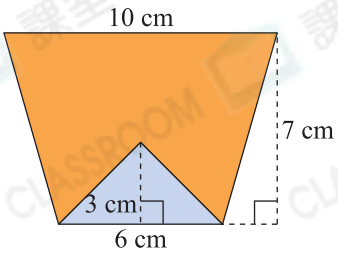
5.



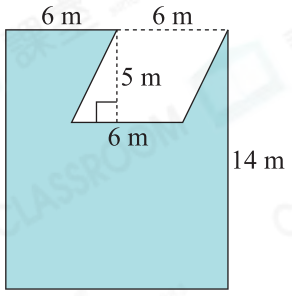
_____ cm^2

6. (a) The area of the trapezium on the right is _____ cm^2.

(b) The area of the orange part is _____ cm^2.



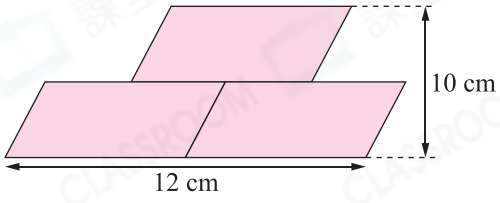
7.



The floor plan of a garden is shown on the left. What is its area?

Answer: Its area is _____ m^2.

8.

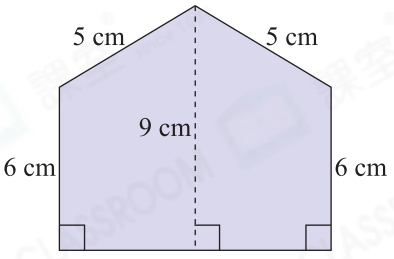


The figure on the left is formed by 3 identical parallelograms. What is the area of the whole figure?

Answer: _____ cm^2

9. The perimeter of the polygon on the right is 30 cm.

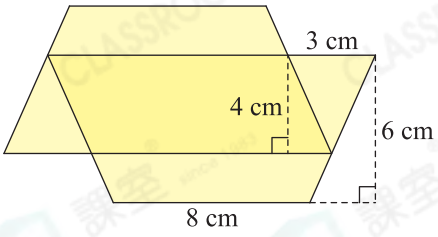
The area of the polygon is _____ cm^2.



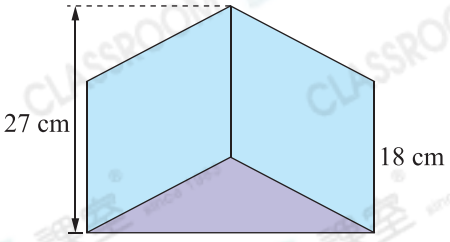
Scoring Key

Find the height of the trapeziums with the given perimeter first.

10. Two identical trapeziums overlapped and formed a new shape as shown on the right. The overlapping part is a parallelogram with an area of 44 cm^2. What is the area of the whole figure? (Show your working)



11. Advanced



The figure on the left is formed by two parallelograms of the same size and an isosceles triangle. The area of the isosceles triangle is 171 cm^2. What is the area of the whole figure?

Answer: _____ cm^2