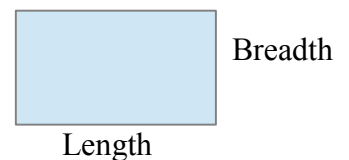


Perimeter and Area

Perimeter: The total distance around the outside of a shape.
(The length of its outline)
Measured in units of length (mm,cm,m,km)

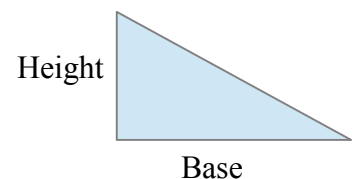
Area: The space a shape takes up.
Measured in units of area (mm^2 , cm^2 , m^2)

The area of a rectangle is length x breadth



Notice the area of a square is a special case because all sides are equal
so length = breadth

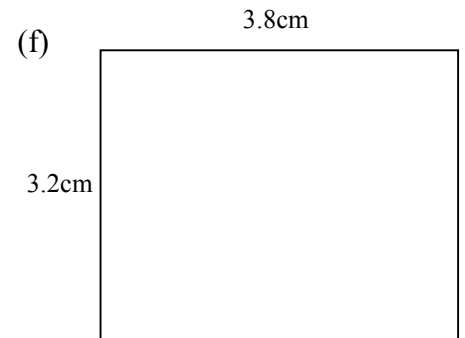
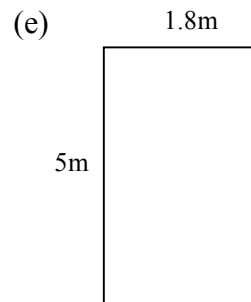
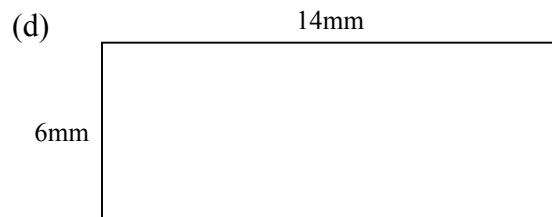
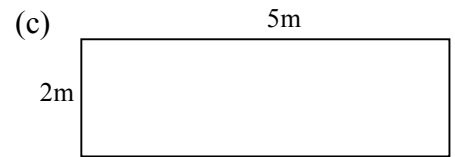
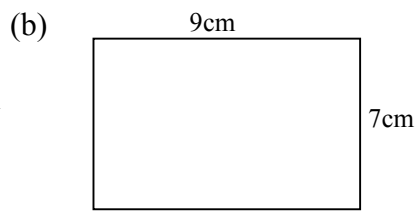
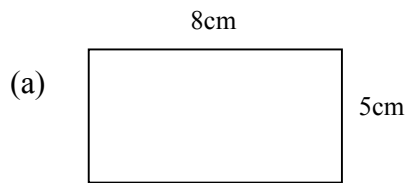
The area of a triangle is base x height



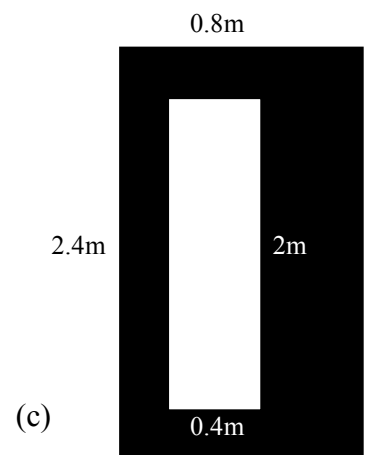
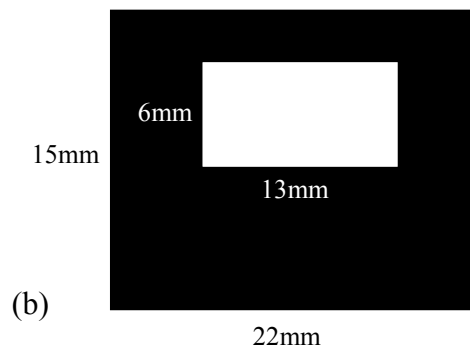
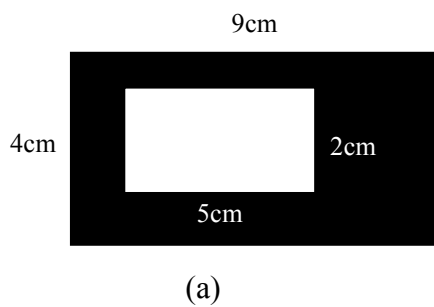
Remember: There must be a right angle between the base and the height.

The area of a composite shape can be found by breaking the shape into its more simple components and finding the area of each.

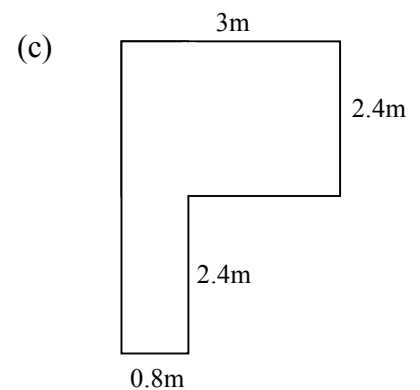
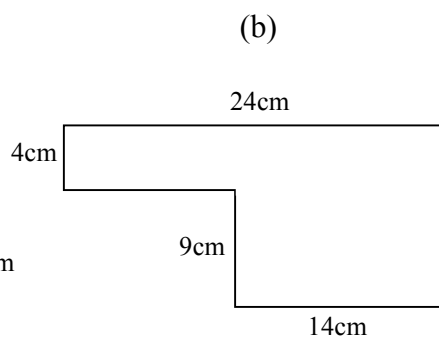
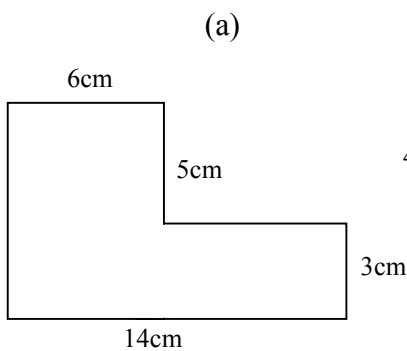
1. Calculate the **area** and the **perimeter** of each rectangle below :



2. Calculate the shaded area in each diagram below :



3. Calculate the area of each composite shape below :



Answers

1. a) $A = 40 \text{ cm}^2$, $P = 26 \text{ cm}$ b) $A = 63 \text{ cm}^2$, $P = 32 \text{ cm}$
c) $A = 10 \text{ m}^2$, $P = 14 \text{ m}$ d) $A = 84 \text{ mm}^2$, $P = 40 \text{ mm}$
e) $A = 9 \text{ m}^2$, $P = 13.6 \text{ m}$ f) $A = 12.16 \text{ cm}^2$, $P = 14 \text{ cm}$
2. a) $A = 26 \text{ cm}^2$ b) $A = 252 \text{ mm}^2$ c) $A = 1.12 \text{ m}^2$
3. a) $A = 72 \text{ cm}^2$ b) $A = 222 \text{ cm}^2$ c) $A = 9.12 \text{ m}^2$