Monifieth High School Maths Department

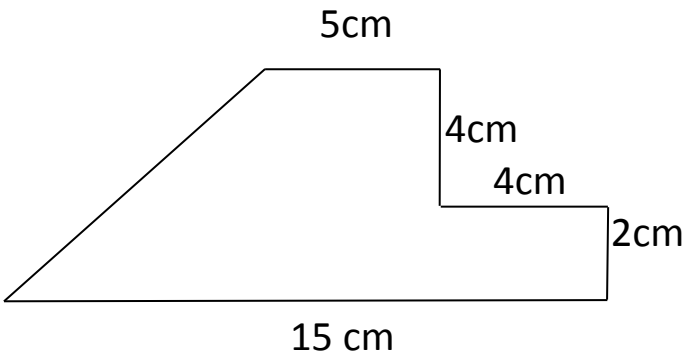
S1 Topic 13: Area and Volume 2

1) Revise how to find the area of a rectangle, square or triangle (Topic 6) and the volume of a cuboid.

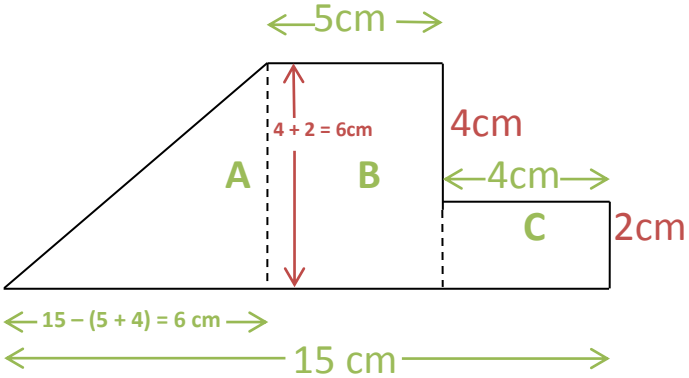
2) Find the area of composite shapes by breaking them down into rectangles and triangles

Problem

Find the area of the shape below.



Solution



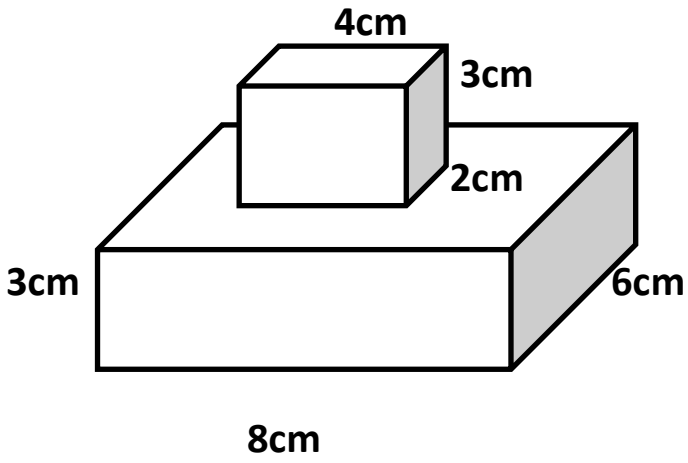
Area of A = ½ b × h
= ½ 6 × 6
= ½ of 36
= 18cm^2

Area of B = l × b
= 6 × 5
= 30cm^2

Area of C = l × b
= 4 × 2
= 8cm^2

TOTAL AREA = 18 + 30 + 8 = 56cm^2

3) Calculate the volume of composite shapes by breaking them down into cuboids

Problem	**Solution**
Find the volume of the shape below.  	Volume of upper cuboid = l × b ×h = 4 × 2 × 3 = 24 cm^3 Volume of lower cuboid = l × b ×h = 8 × 6 × 3 = 144 cm^3 Total Volume = 24 + 144 = 168cm^3