

## MTH 3-15b

Homework 5

Silver Level



## Outcome 1 - Formulae in Geometry



Evaluate the following geometrical formulae...



The formula for calculating the volume of a cuboid is given as:

$$V = L \times B \times H$$



The formula for the perimeter of a rectangle is given as:

$$P = 2L + 2B$$

rectangle with L = 10 mm and B = 11 mm?

where P is the perimeter, L is the

length and B is the breadth.

What is the perimeter of a



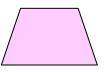
where V is the volume, L is the length, B is the breadth and H is the height.

What is the volume of a cuboid when L = 3 m, B = 4 m and H = 2 m?



The formula for calculating the area of a trapezium is given as:

$$A = \frac{1}{2} \times (a + b) \times H$$



where A is the area and  $D_1$  and  $D_2$  are the two diagonals.

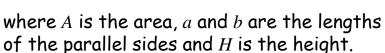
 $A = \frac{1}{2} \times D_1 \times D_2$ 

The formula for

of a kite is given as:

calculating the area

What is the area of a kite where  $D_1$  = 4 cm and  $D_2$  = 11 cm?



What is the area of a trapezium when a = 3 m, b = 7 m and H = 8 m?