

# Area of a Trapezoid

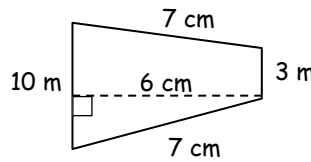
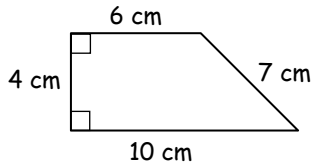
*Directions: Questions 1 to 4: Do the questions in your notebook. Do not copy the diagrams. Show your working.*

*Question 5: You may write the measurements on this sheet. Show the working in your notebook.*

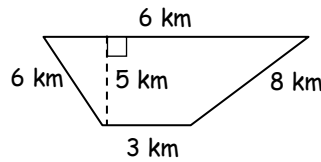
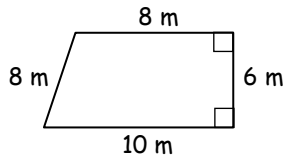
1. Find the area of these trapezoids using the formula

$$\text{Area} = \text{Base} \times \text{Perpendicular Height}$$

where Base is the average length of the two bases.

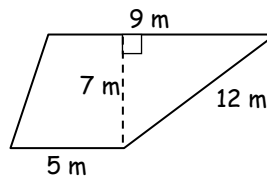
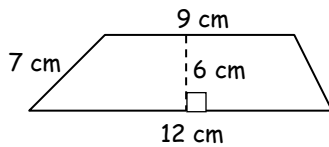


2. Find the area of these trapezoids by first dividing the trapezoid into a parallelogram and a triangle.

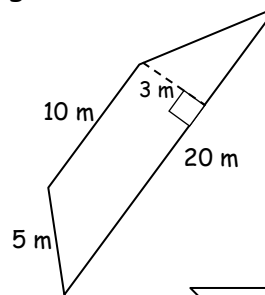
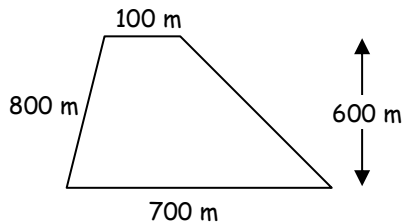


3. Find the area of these trapezoids by using the formula

$$\text{Area} = (A + B) \times PH \div 2$$



4. Find the area of these trapezoids using whatever method you wish.



## Challenge!

5. Find the area of this shape.  
Hint: you will need a ruler.

