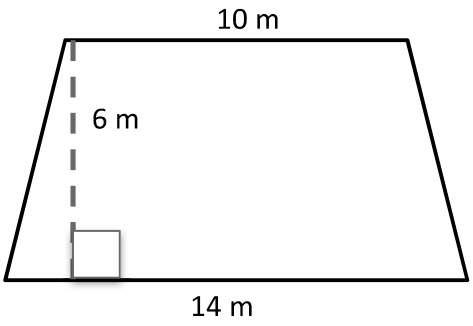
Name:_____ Date:_____

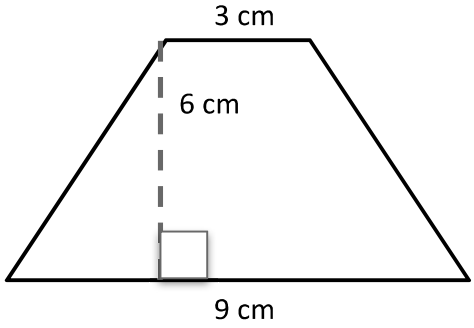
**Answer Key**

# Area of Trapezoids

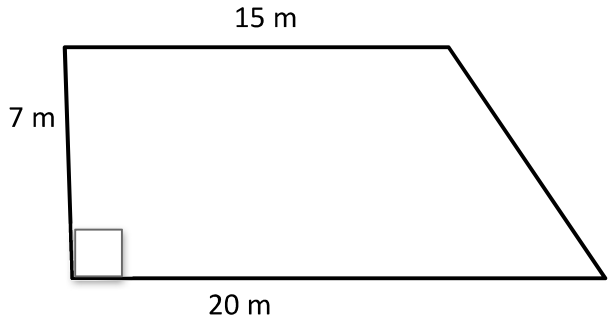
1. A trapezoid is:
   quadrilateral with exactly one pair of parallel sides
2. A trapezoid has two bases.
3. The bases of a trapezoid are perpendicular to the height.
4. The area of a trapezoid is one half the product of its height and the sum of its bases
5. The algebraic formula for area of a trapezoid is: $A= h(b_1+b_2)/2$ or $A=1/2h(b_1+b_2)$ Find the area of each trapezoid below:



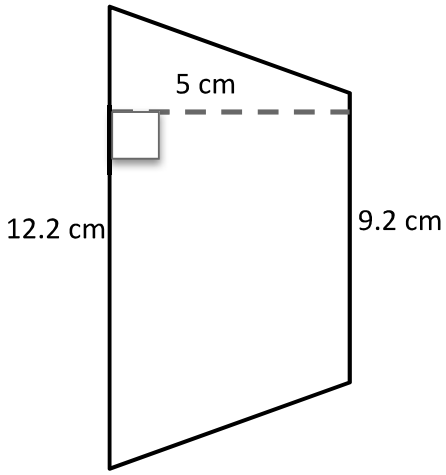

72 $m^2$




36 $cm^2$




122.5 $m^2$




53.5 $cm^2$

Name:_____ Date:_____

**Answer Key**

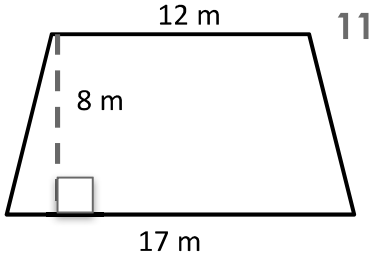
# Practice: Area of Trapezoids

#1 What is the area of the trapezoid with the following dimensions:
**$b_1$= 5 in**
**$b_2$= 2 in**
**h= 7in**
**24.5 $in^2$**

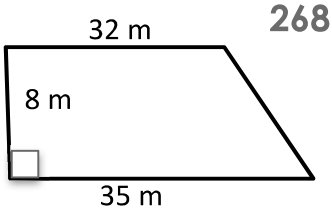
#2 What is the area of the trapezoid with the following dimensions:
**$b_1$= 20 in**
**$b_2$= 30 in**
**h= 10 in**
**250 $in^2$**

#3 What is the area of the trapezoid with the following dimensions:
**$b_1$= 4.1 m**
**$b_2$= 4.2 m**
**h= 4.5 m**
**18.675 $in^2$**

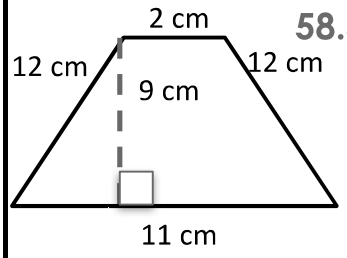
#4 Find the area of the figure below:
**116 $m^2$**




#5 Find the area of the figure below:
**268 $m^2$**




#6 Find the area of the figure below:
**58.5 $cm^2$**




#7 Rebecca is mowing the lawn at the local park. The park is shaped like a trapezoid. One base has a length of 100 ft. The other base has a length of 200 ft. It has a height o 200 ft. Find the area that she has to mow.
**30,000 square feet**