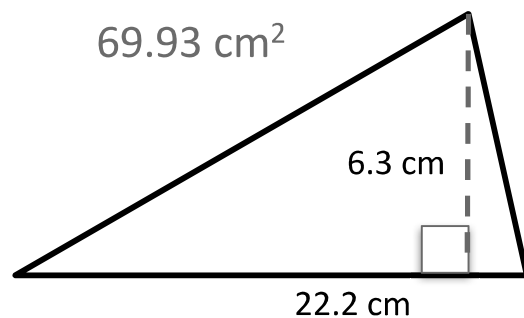
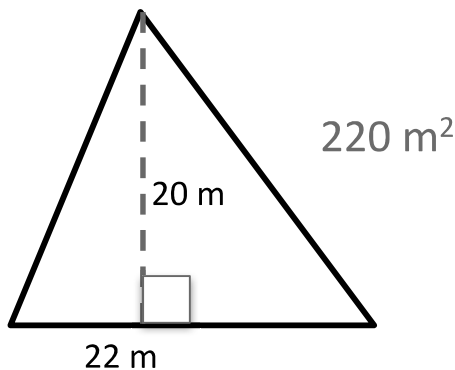
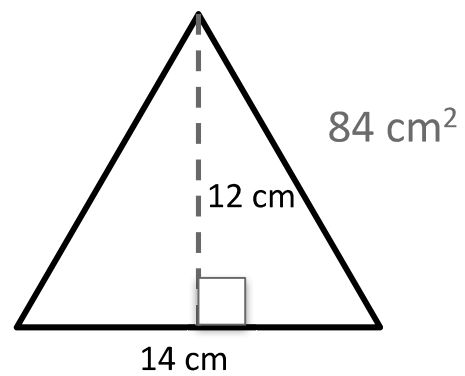
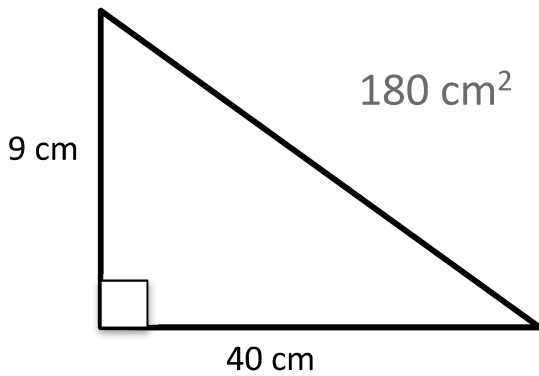


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Date: \_\_\_\_\_

# Area of Triangles

1. The area of a polygon is the amount of surface it covers.
2. To find the area of a triangle, multiply the base by the height, then divide by two.
3. Another way this can be written is:  
multiply  $\frac{1}{2}$  times the base times the height.
4. The algebraic formula is:  $A=bh/2$  or  $A= \frac{1}{2}bh$
5. The base and height are perpendicular to each other.
6. Perpendicular lines intersect to form a right angle.
7. Right angles measure 90 degrees
8. Find the area of each triangle below:



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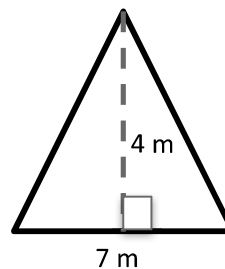
# Practice: Area of Triangles

#1 What is the area of a triangle with a base of 6m and a height of 7m?  
21m<sup>2</sup>

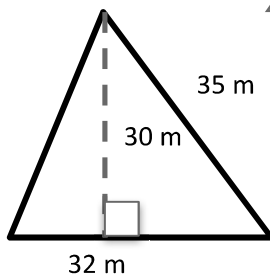
#2 What is the area of a triangle with a base of 10 cm and a height of 40 cm?  
200 cm<sup>2</sup>

#3 What is the area of a triangle with a base of 14.5 cm and a height of 7.1 cm?  
51.475 cm<sup>2</sup>

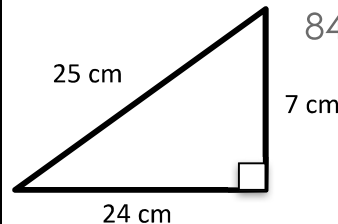
#4 Find the area of the figure below:  
14m<sup>2</sup>



#5 Find the area of the figure below:  
480 m<sup>2</sup>



#6 Find the area of the figure below:  
84 cm<sup>2</sup>



#7 Susan is making a quilt using triangular shaped pieces. Each triangle piece has a base of 5 inches and a height of 6 inches. If Susan needs to cut 20 identical triangles, what is the total amount of fabric she needs?

Area of each triangle piece: 15in<sup>2</sup>

Total area: 15 x 20 = 300 in<sup>2</sup>