

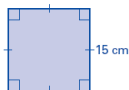
8.4 Areas of Triangles

Goal: To be able to find the area of triangles

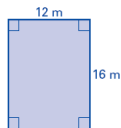
Warm Up

Find the area of each figure.

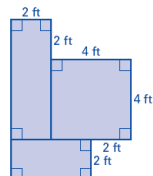
1.



2.



3.



4. A rectangular mural has an area of 504 square feet and is 12 feet high. What is the length of the base of the mural?

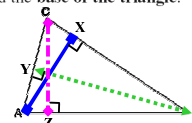
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The **height** of a triangle is the perpendicular segment from a vertex to the line containing the opposite side, called the **base** of the triangle.

\overline{CZ} is the height that corresponds to base \overline{AB} .

\overline{AX} is the height that corresponds to base \overline{BC} .

\overline{BY} is the height that corresponds to base \overline{AC} .



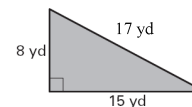
Area of a triangle: Area = $\frac{1}{2}$ (base)(height)

$$A = \frac{1}{2} b h$$

**** Start each problem with this formula.**

Find the Area of a Right Triangle

Find the area of the right triangle.



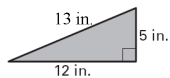
**** When finding the area of a right triangle; ALWAYS use the two legs as the base and the height because they are always perpendicular to each other (since they form the right angle)**

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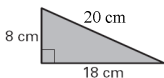
**** When finding the area of a right triangle; ALWAYS use the two legs as the base and the height because they are always perpendicular to each other (since they form the right angle)**

Find the area of the right triangle.

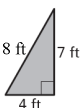
1.



2.



3.

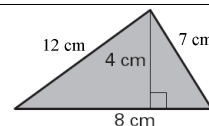


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Find the Area of a Triangle

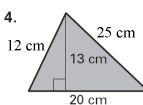
Find the area of the triangle.

Step 1: Decide which base and corresponding height you will use

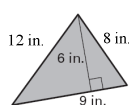


Find the area of the triangle.

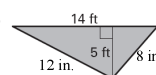
4.



5.



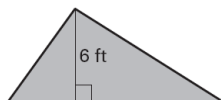
6.



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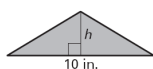
Find the Base of a Triangle

Find the base of the triangle, given that its area is 42 square feet.

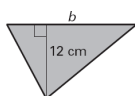


A gives the area of the triangle. Find the missing measure.

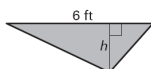
7. $A = 15 \text{ in.}^2$



8. $A = 126 \text{ cm}^2$



9. $A = 6 \text{ ft}^2$



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