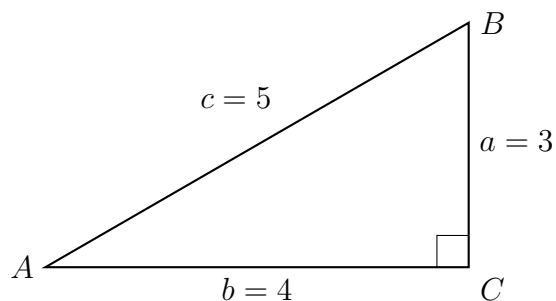


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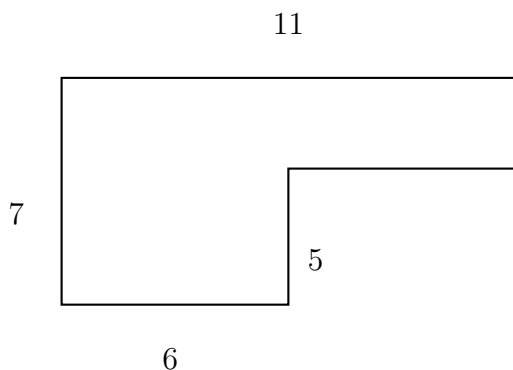
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4.8 Review: Area, Perimeter, and Volume

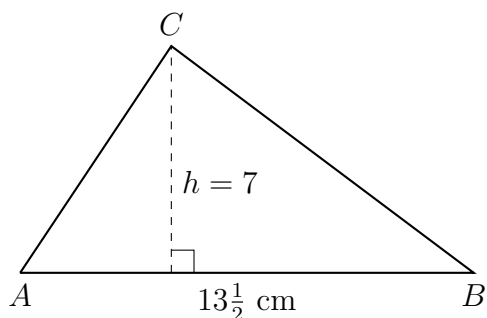
1. Find the area of $\triangle ABC$ shown below (not actual size) with $m\angle C = 90^\circ$ and the lengths of the triangle's sides as $a = 3$, $b = 4$, and $c = 5$.



2. Find the area and perimeter of the shape shown below. Mark the missing side lengths first. All angles are 90° .
(not drawn to scale)



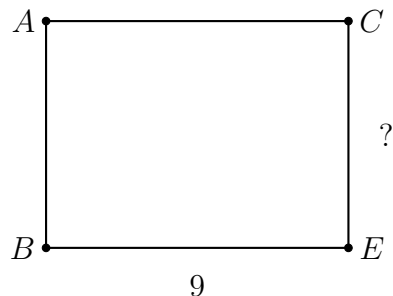
3. Find the area of $\triangle ABC$. The altitude h of the triangle is 7 centimeters and the base $AB = 13\frac{1}{2}$ cm. (diagram not to scale)



4. The rectangle $BECA$ has an area of 63, with length $BE = 9$.

(a) Write an equation with the unknown w as the width of the rectangle.

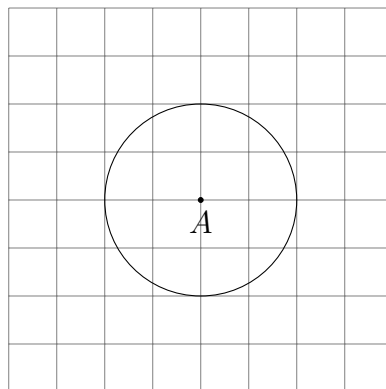
(b) Solve.



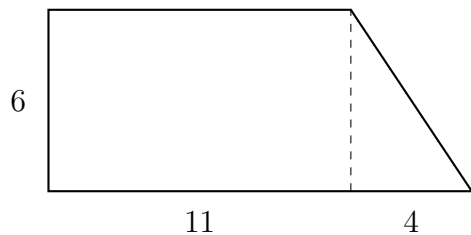
5. Given the circle centered at A with radius $r = 2$. Leave an exact answer, in terms of π if necessary.

(a) Find the circumference of circle A .

(b) Find the area of the circle.



6. The compound shape shown below is composed of a rectangle 6 inches by 11 inches, and a triangle with base 4 inches. Find the total area of the combined shape.



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7. A given sphere has a radius of 6 inches.
- (a) Write down the general formula for the volume of a sphere, using r to represent the radius.
 - (b) Find the volume of the sphere, to the *nearest whole cubic inch*.
8. A triangle has an area of 68 square centimeters. Its height is 16 centimeters. Find the length of its base.
9. The perimeter of a square is 10 inches. Find its area.
10. A pyramid with a square base has a volume of 576 cubic inches. Its height is the same as the lengths of the sides of the base. Find the area of its base.