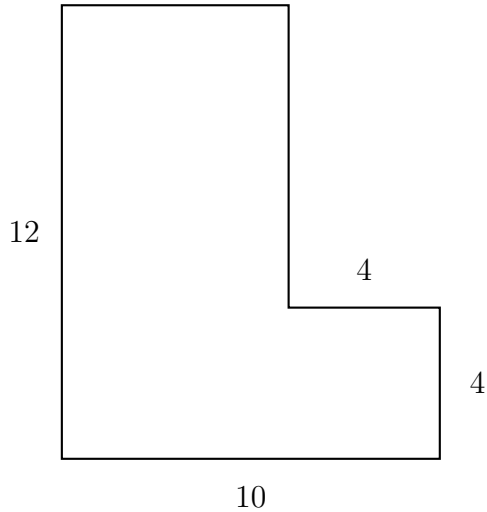


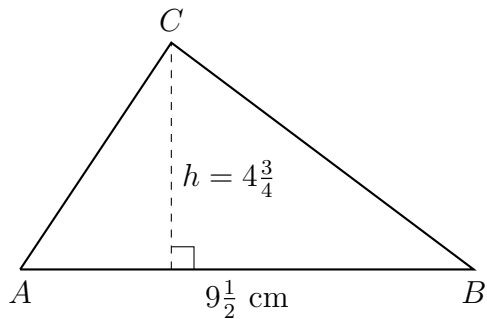
Name:

1.11 Review: Length and area

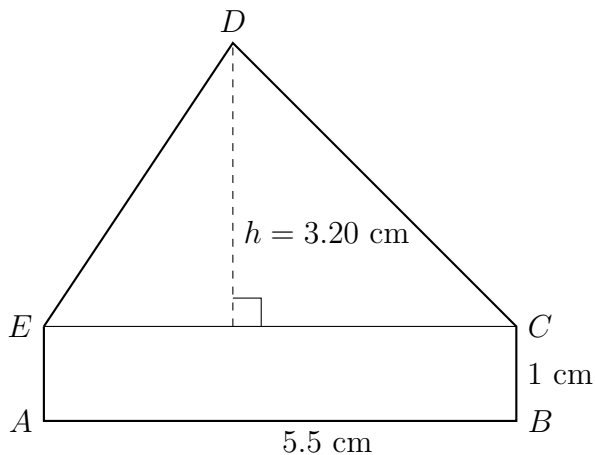
1. Find the area of the shape shown below. All angles are 90° . *(not drawn to scale)*



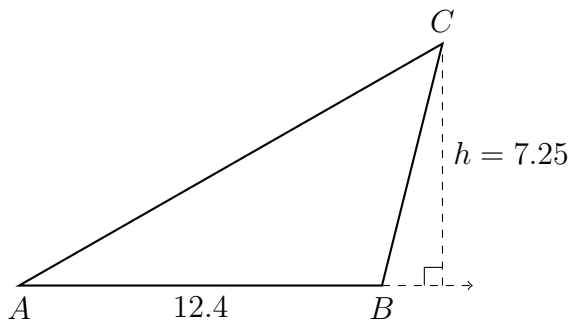
2. Find the area of $\triangle ABC$. The altitude h of the triangle is $4\frac{3}{4}$ centimeters and the base $AB = 9\frac{1}{2}$ cm. (diagram not to scale)



3. Find the area of shape $ABCDE$ below, a triangle on a rectangle. The altitude h of the triangle is 3.20 centimeters and the base $AB = 5.5$ cm. The rectangle is 1 cm tall. (diagram not to scale)

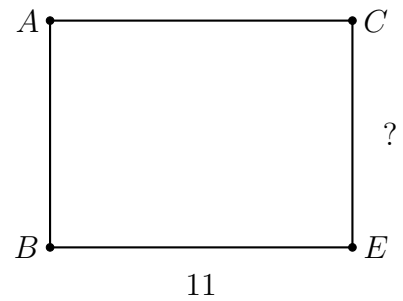


4. The side \overline{AB} of triangle ABC is extended and an altitude to the vertex C is drawn, as shown below. The triangle's height is $h = 7.25$ and its base measures $AB = 12.4$. Find the area of the triangle.

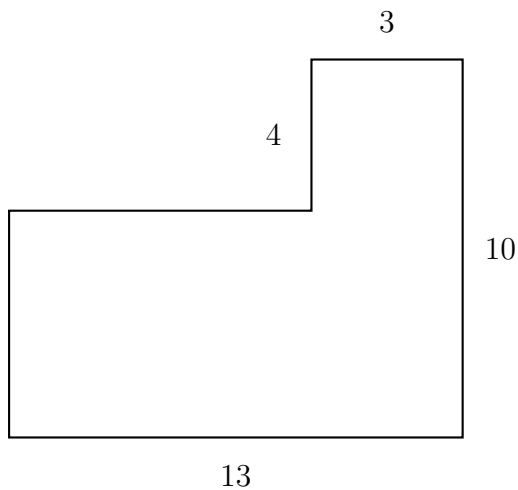


5. A rectangle has an area of 44 square inches. Its width is 4 inches. Find its length.
6. A triangle has an area of 75 square centimeters. Its height is 12 centimeters. Find the length of its base.
7. The rectangle $BECA$ has an area of 77, with length $BE = 11$.
- Write an equation with the unknown w as the width of the rectangle.
 - Solve.

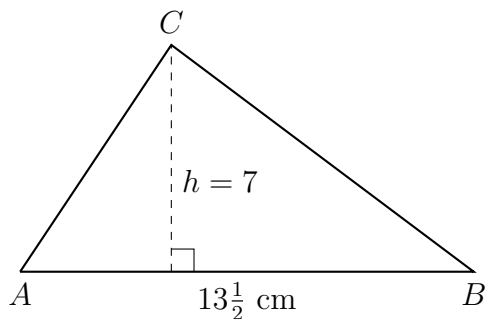
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8. Find the area and perimeter of the shape shown below. Mark the missing side lengths first. All angles are 90° .
(not drawn to scale)

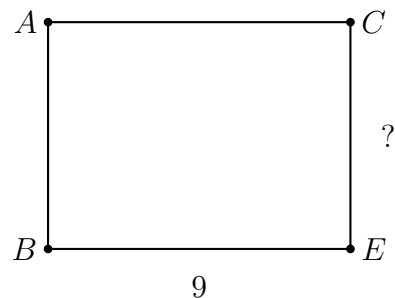


9. Find the area of $\triangle ABC$. The altitude h of the triangle is 7 centimeters and the base $AB = 13\frac{1}{2}$ cm. (diagram not to scale)

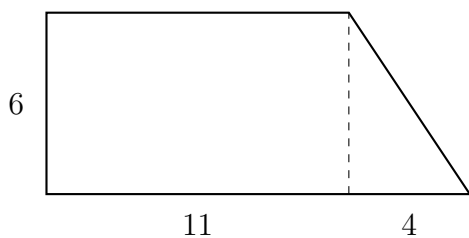


10. The rectangle $BECA$ has an area of 63, with length $BE = 9$.
(a) Write an equation with the unknown w as the width of the rectangle.

(b) Solve.



11. 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.

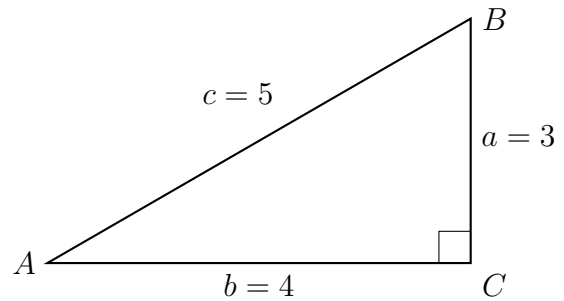


12. A triangle has an area of 68 square centimeters. Its height is 16 centimeters. Find the length of its base.

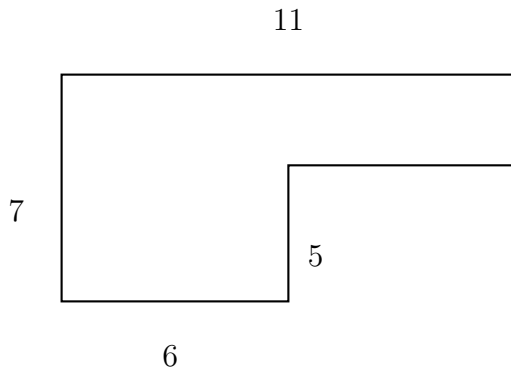
13. The perimeter of a square is 10 inches. Find its area.

14. 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 $c = 5$.

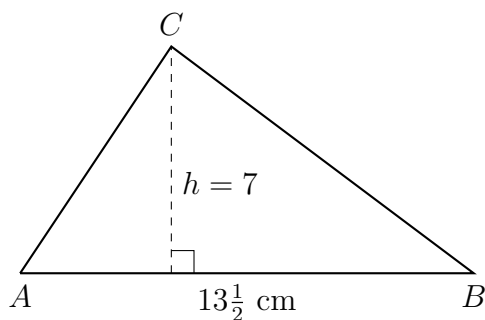
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15. Find the area and perimeter of the shape shown below. Mark the missing side lengths first. All angles are 90° .
(not drawn to scale)



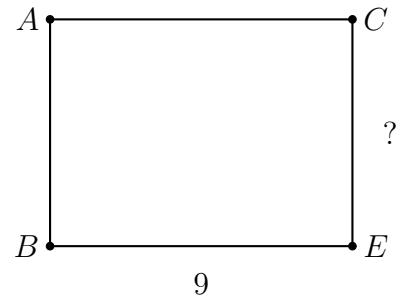
16. Find the area of $\triangle ABC$. The altitude h of the triangle is 7 centimeters and the base $AB = 13\frac{1}{2}$ cm. (diagram not to scale)



17. 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.

6

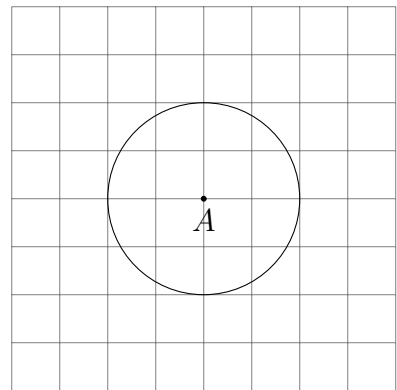
(b) Solve.



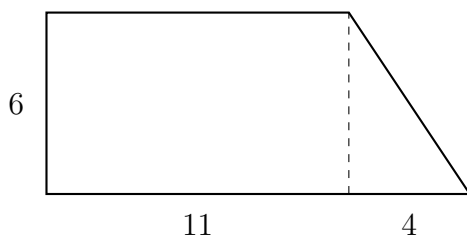
18. Given the circle centered at A with radius $r = 2$. Leave an exact answer, in terms of π if necessary.

(a) Find the circumference of circle A .

(b) Find the area of the circle.



19. 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.



Name:

20. Find the area A of the shape shown below in terms of unit squares.

