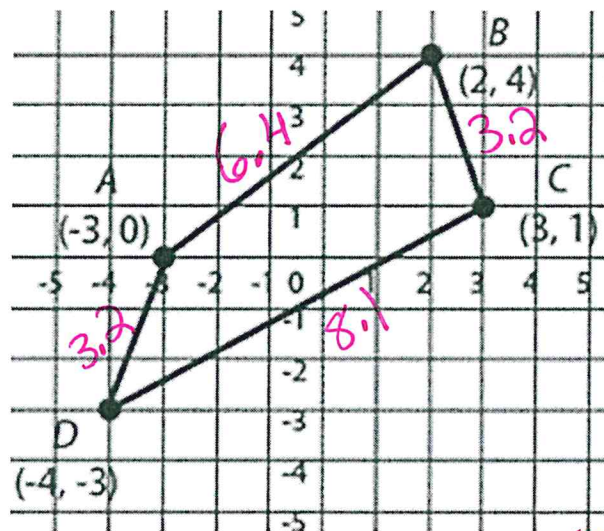


1.

19 Units

Calculate the perimeter:

*Distance Formula! $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$



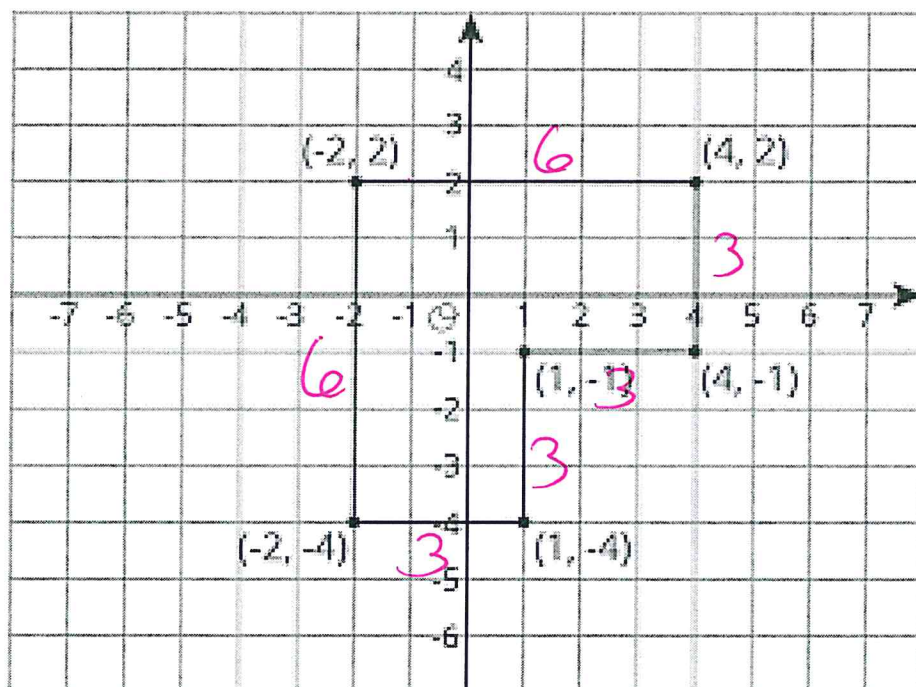
$$P = 6.4 + 3.2 + 3.2 + 8.1 = \boxed{20.9 \text{ units}}$$

2.

$$84 \text{ in}^2$$

Calculate the perimeter:

*Can count vertical + horizontal distance.

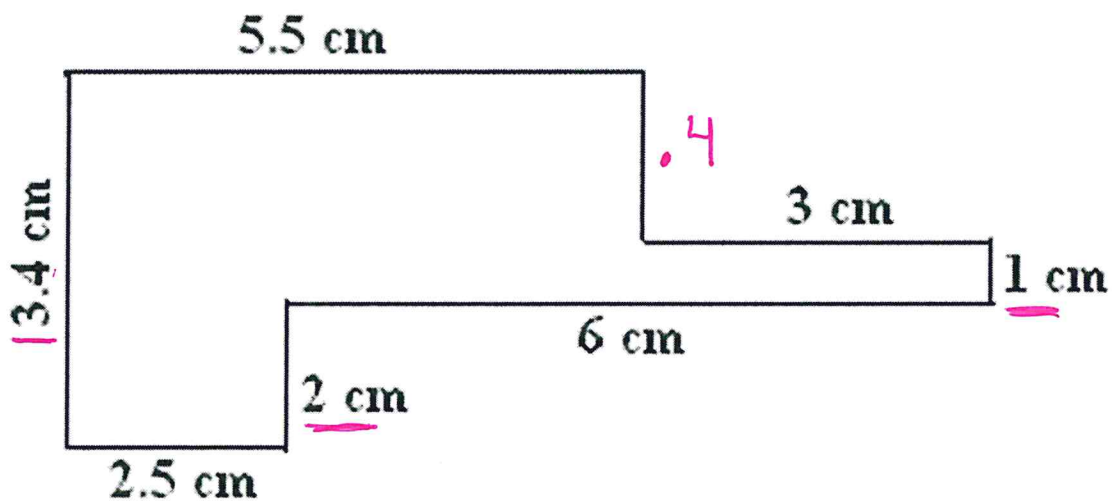


$$P = 6 + 6 + 3 + 3 + 3 + 3 = \boxed{24 \text{ units}}$$

3.

$$39 \text{ m}^2$$

Calculate the perimeter:



$$P = 3.4 + 5.5 + .4 + 3 + 1 + 6 + 2 + 2.5 = 23.8$$

$$\boxed{23.8 \text{ cm}}$$

4.

$$25 \text{ m}^2$$

Calculate the perimeter:

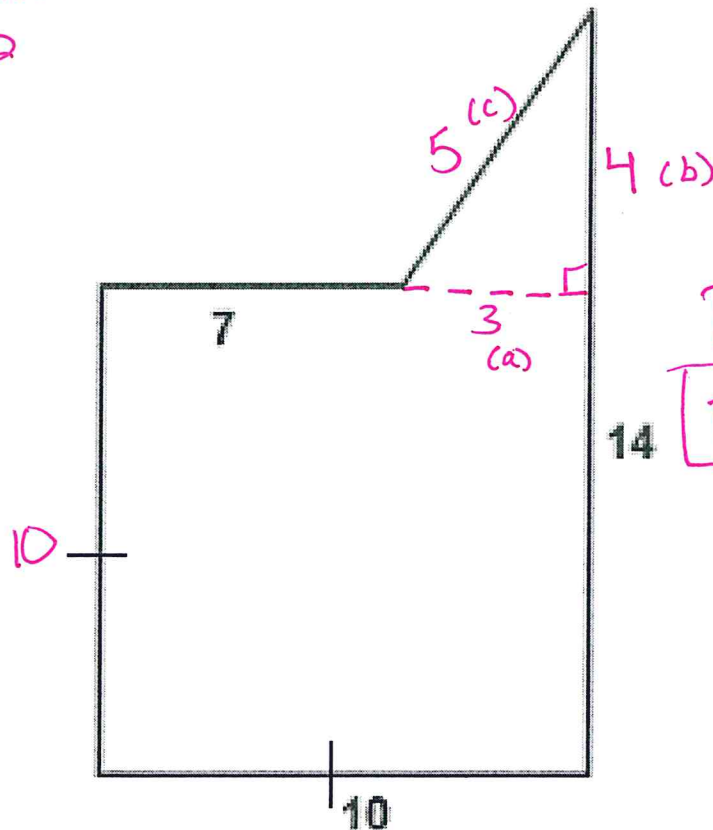
Pythag. Thm.
 $a^2 + b^2 = c^2$

$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$\sqrt{25} = \sqrt{c^2}$$

$$\underline{5 = c}$$



$$P = 10 + 7 + 5 + 4 + 10$$

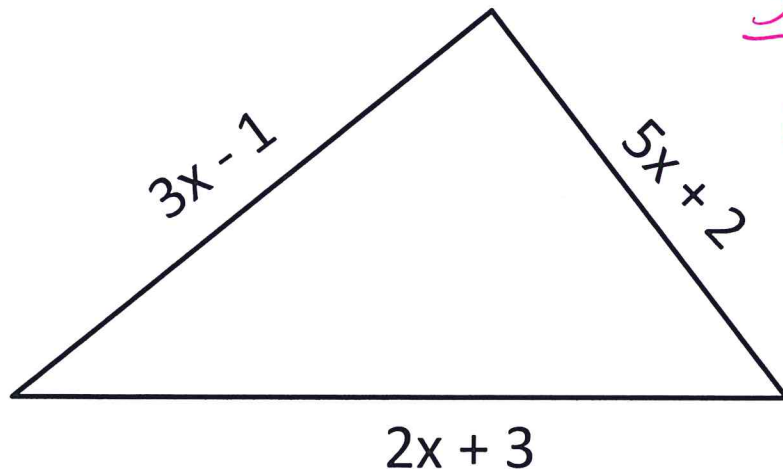
$$\boxed{P = 46 \text{ units}}$$

5.

31 ft

Solve for the variable for the given triangle.

Perimeter = 84



$$\underline{3x-1} + \underline{5x+2} + \underline{2x+3} = 84$$

$$10x + 4 = 84$$

$$\underline{-4 \quad -4}$$

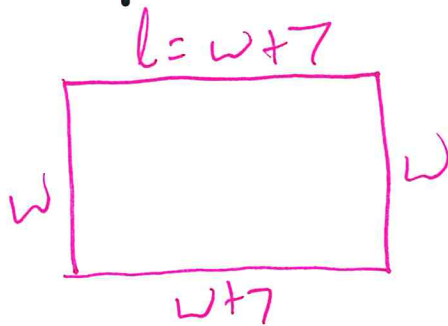
$$\underline{\frac{10}{10}x = \frac{80}{10}}$$

$$\underline{x = 8}$$

6.

$$112.5 \text{ Units}^2$$

The length of a rectangle is 7 more than the width. What is the length of the rectangle if the perimeter is 62 units?



$$\begin{aligned} P &= \underline{w} + \underline{w} + \underline{w+7} + \underline{w+7} \\ 62 &= 4w + 14 \\ \underline{-14} \quad \quad \underline{-14} \\ 48 &= 4w \\ \underline{4} \quad \quad \underline{4} \\ 12 &= w \end{aligned}$$

$$\begin{aligned} l &= w + 7 \\ l &= 12 + 7 \end{aligned}$$

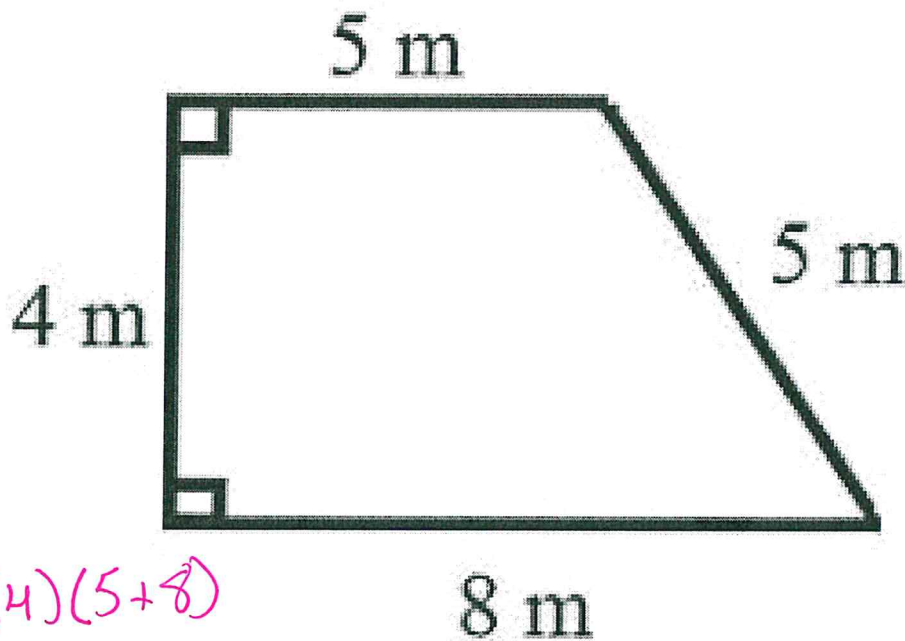
$$l = 19 \text{ units}$$

7.

46 Units

Find the area:

Area of a Trapezoid'. $A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$



$$A = \frac{1}{2}(4)(5+8)$$

$$A = \frac{1}{2}(4)(13)$$

$$A = 26 \text{ m}^2$$

8.

20.9 Units

Find the area:

Pythag. Thm. : $a^2 + b^2 = c^2$

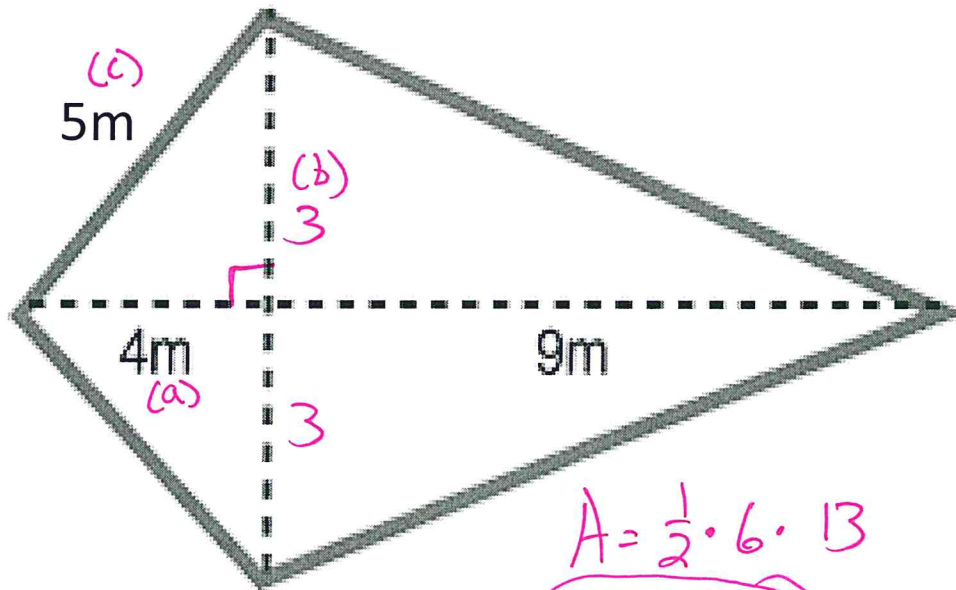
$$4^2 + b^2 = 5^2$$

$$16 + b^2 = 25$$

$$\sqrt{b^2} = \sqrt{9}$$

$$\underline{b = 3}$$

Area of a Kite: $A = \frac{1}{2} \cdot d_1 \cdot d_2$



$$A = \frac{1}{2} \cdot 6 \cdot 13$$

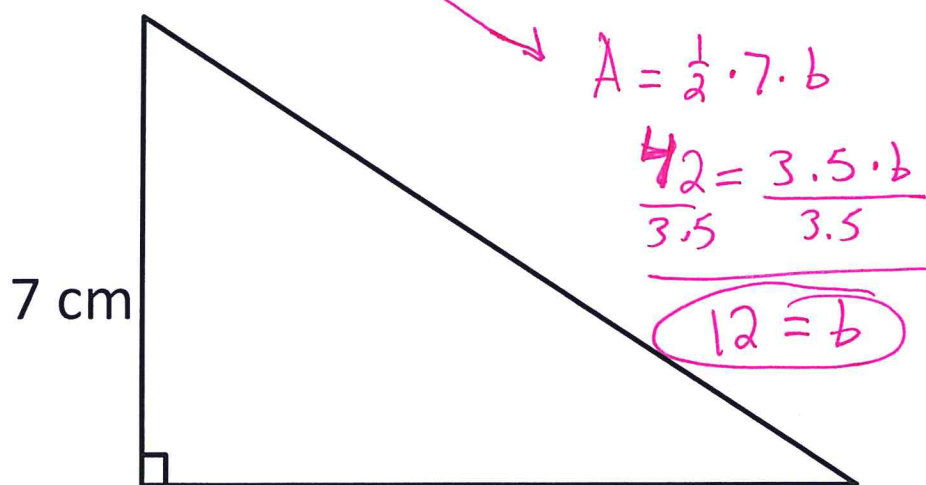
$$\underline{A = 39 \text{ m}^2}$$

9.

$$60 \text{ cm}^2$$

The area of the triangle is 42 cm^2 . Find the base.

Area of a Δ : $\frac{1}{2} \cdot b \cdot h$



$$A = \frac{1}{2} \cdot 7 \cdot b$$

$$\frac{42}{3.5} = \frac{3.5 \cdot b}{3.5}$$

$$\underline{12 = b}$$

10.

12 cm

Find the perimeter of the rectangle:

10 ft

$$\frac{55}{10} = \frac{10 \cdot h}{10}$$

$$5.5 = h$$

$$A = 55 \text{ ft}^2$$

$$A = b \cdot h$$

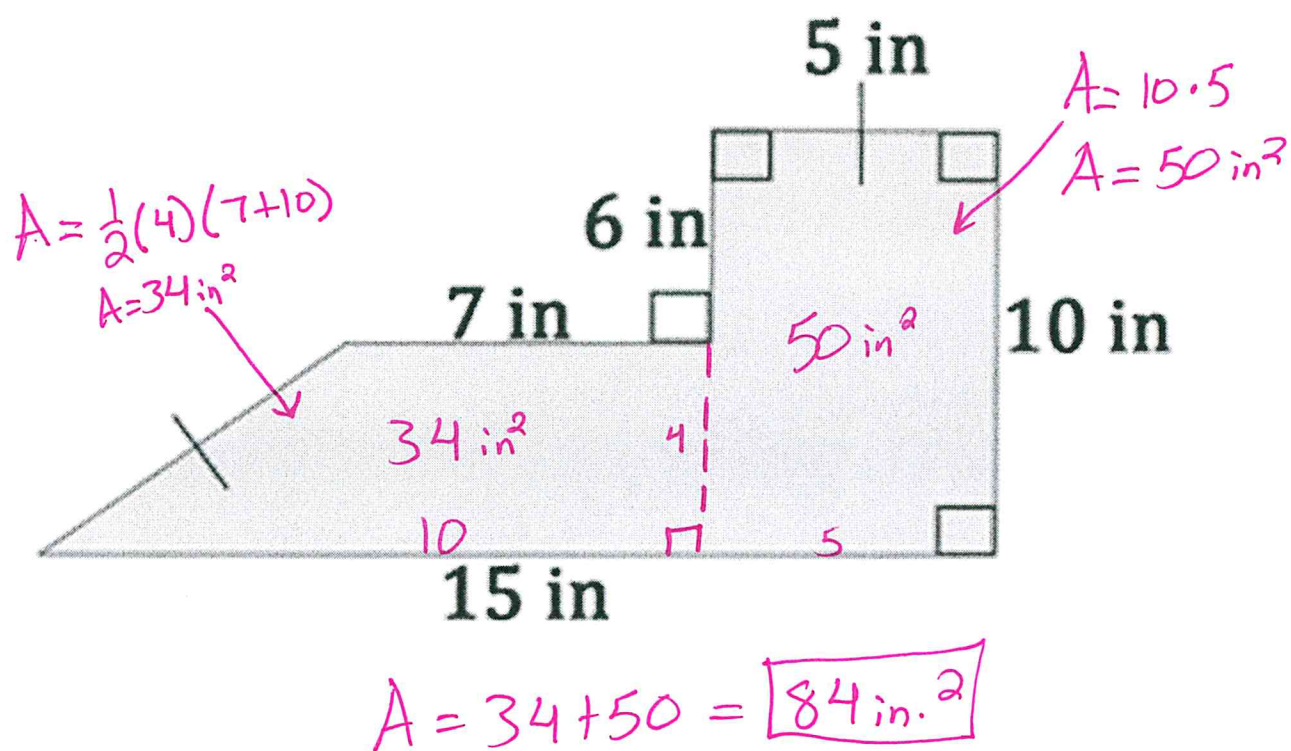
5.5

$$P = 10 + 10 + 5.5 + 5.5 = 31 \text{ ft.}$$

11.

$$26 \text{ m}^2$$

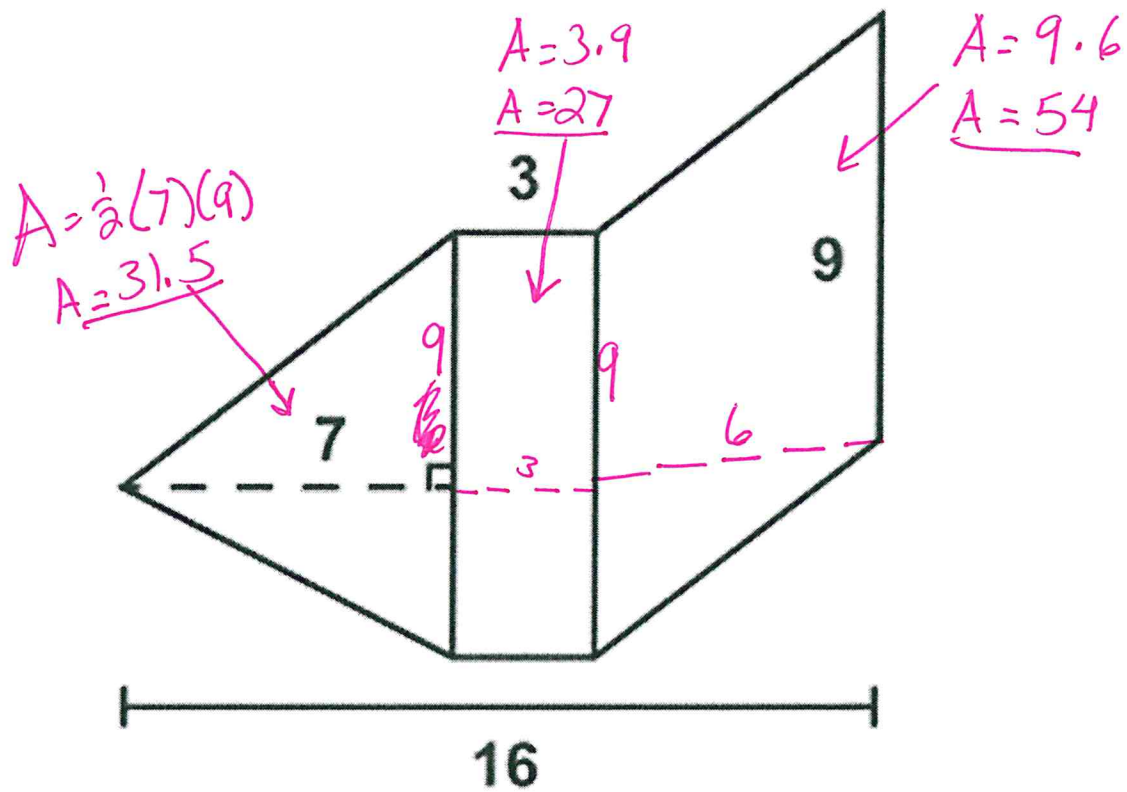
Find the area:



12.

24 Units

Find the area:

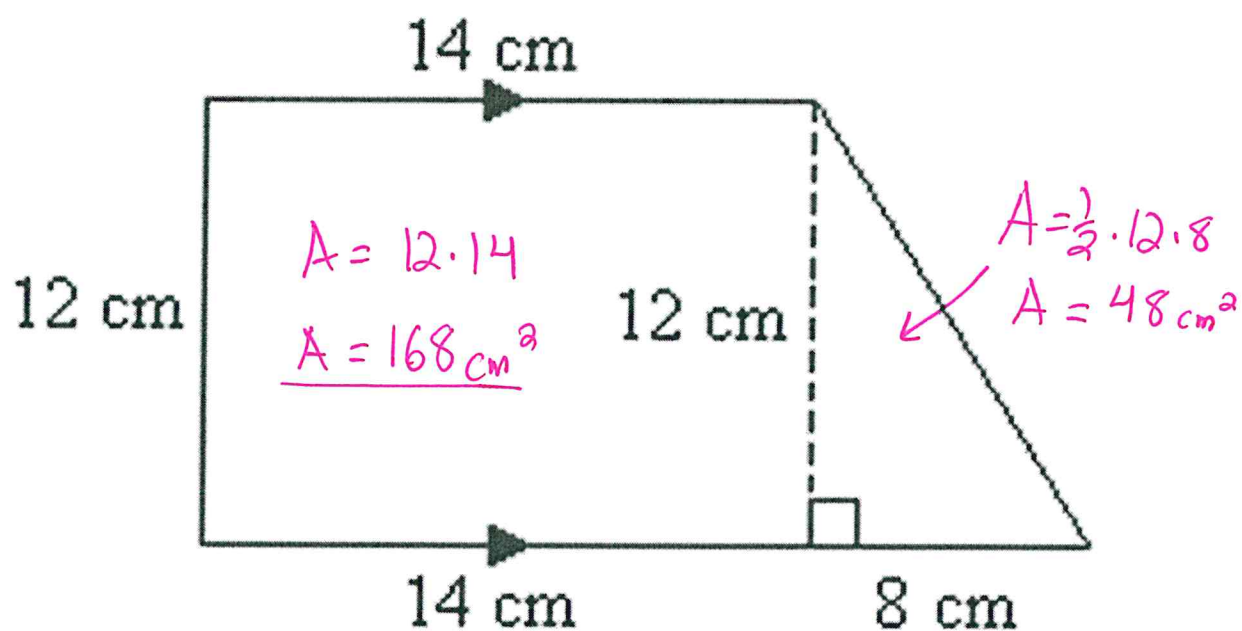


$$A = 31.5 + 27 + 54 = \boxed{112.5 \text{ units}^2}$$

13.

8

Find the area:

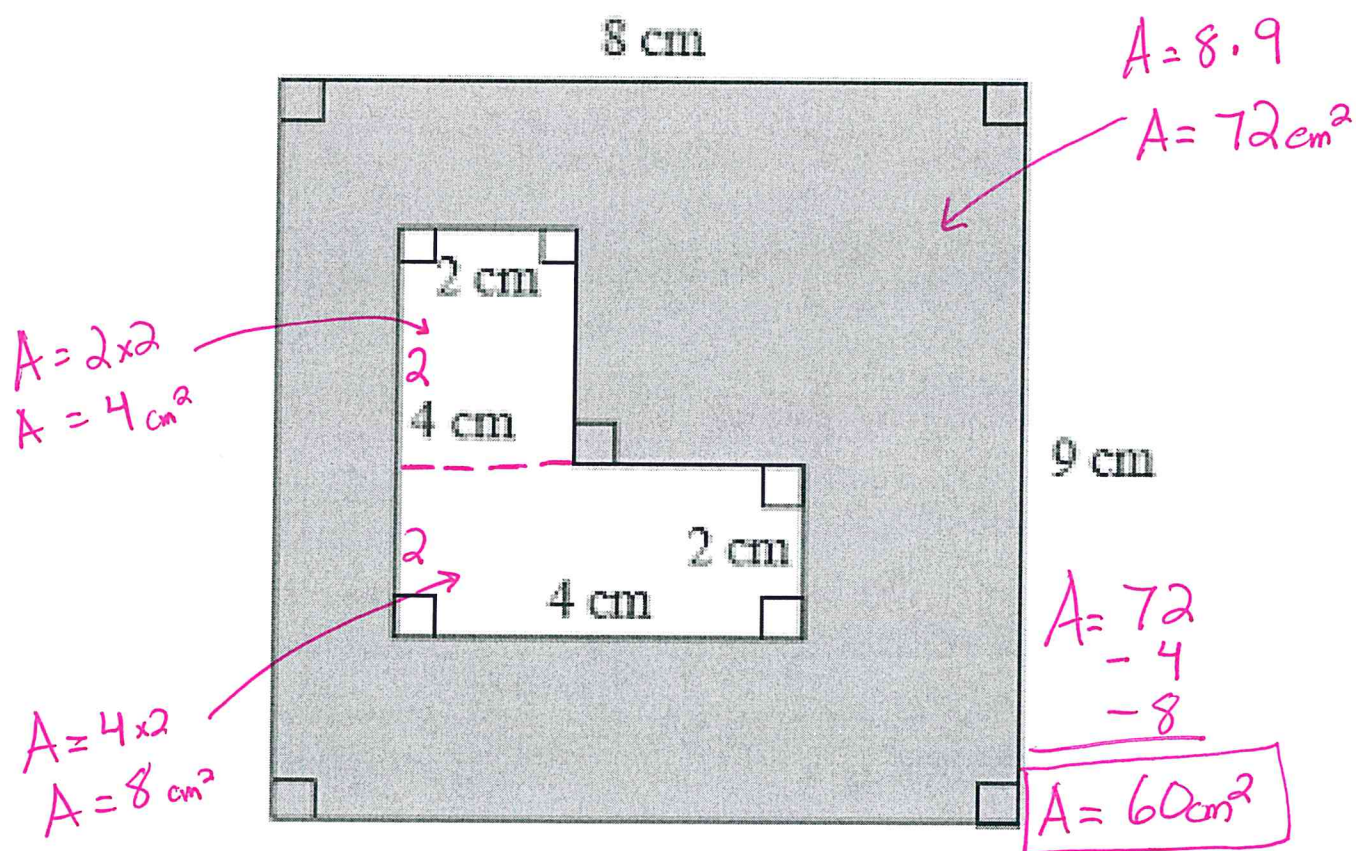


$$A = 168 + 48 = \boxed{216 \text{ cm}^2}$$

14.

23.8 cm

Find the area of the shaded region:



15.

216 cm^2

Find the area of the shaded region:

Area of Triangle!

$$A = \frac{1}{2}(5)(4)$$

$$A = 10 \text{ m}^2$$

Area of Large Rectangle!

$$A = 7.5$$

$$A = 35 \text{ m}^2$$

