LESSON 3.1 Homework
Solve the equation. CHECK!

1) \( x + 16 = 25 \)

2) \( n - 9 = 17 \)

3) \( -30 = w + 8 \)

4) \( y + 5 = -13 \)

5) \( a - 17 = -10 \)

6) \( 41 = 52 + m \)

7) \( c - 2.4 = 1.8 \)

8) \( z + 4.1 = 9.6 \)

9) \( -3.2 = 4.5 + p \)

10) \( 9x = 54 \)

11) \( -5b = 55 \)

12) \( -42 = 3m \)

13) \( -52 = -4y \)

14) \( \frac{1}{3} n = 36 \)

15) \( -\frac{3}{4} a = 12 \)

16) \( 0.5 y = 17 \)

17) \( -1.4a = 2.8 \)

18) \( -6.5 = -1.3 m \)
The rectangle or triangle has area $A$. **Write and solve an equation** to find the value of $x$.

19) $A = 70 \text{ in.}^2$

![Rectangle](image1.png)

14) $A = 30 \text{ in.}^2$

![Triangle](image2.png)

15) **Caves** Cumberland Caverns in Tennessee is 44.4 kilometers long which is 10.9 kilometers longer than Carlsbad Caverns in New Mexico. Write and solve an equation to find out how long Carlsbad Caverns are.

16) **Bocce** Bocce is a lawn bowling game that originated in Italy. The bocce court below has an area of 1032 square feet. The width of the court is 12 feet. Write and solve an equation to find out how long the court is.

![Bocce Court](image3.png)

17) **Speedskating** In the 2002 Winter Olympics, Cartriona LeMay Doan won the 500-meter race. Her winning time was 74.75 seconds. Write and solve an equation to find her average speed to the nearest tenth of a meter per second.

18) **Part-Time Job** You work at a grocery store part-time. You estimate that you spend $\frac{3}{5}$ of your time stocking shelves. You work 20 hours each week. Write and solve an equation to find out how many hours of your work week you spend stocking shelves.