

## Solve Equations - I

1. Use mental math to solve each equation for  $n$ .

- a.  $2 + n = 10$
- b.  $3 - n = 2$
- c.  $8 - n = 4$
- d.  $12 \div n = 6$
- e.  $n \times 6 = 24$
- f.  $n + 0.8 = 1.2$

Solution:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

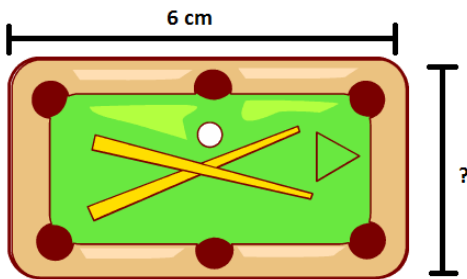
2. Solve each of the following set of linear equations. Each variable represents one number. Find the value of both the variables.

- a.  $3 + n = 12$  and  $m + n = 16$
- b.  $a + 12 = 15$  and  $a + b = 50$
- c.  $a \div 4 = 1$  and  $a - b = 2$
- d.  $m \times 12 = 36$  and  $m + n = 5$

Solution:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

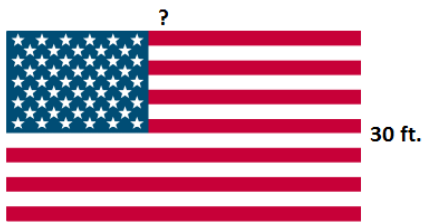
3. Define an equation to find of the perimeter  $P$  of the figure shown below. Solve for the unknown side.



$$P = 18 \text{ cm}$$

Solution:

4. Make an equation to find the area  $A$  of the flag shown below. Solve for the unknown side.



$$A = 1200 \text{ ft}^2$$

Solution:

5. Explain why " $x = 100$ " is the solution of the equation:  $x + 900 = 1,000$ ;

Solution: