

Try your best. Show and check your work. Circle your final answer.

- 1. Write** and then **solve** an equation that represents the statement:

four less than twelve times a number, n , is 44.

- 2. Solve.** Show all your work.

$$\frac{1}{5}m + 6 = 11$$

- 3. Solve.** Show all your work.

$$5m - 150 = 2m + 51$$

- 4. Solve.** Show all your work.

$$4(x + 9) + 2x = 6x - 4$$

- 5.** Bismark (Car A) leaves Columbus traveling at a speed of 50 miles per hour. Two hours later, Benedict (Car B) leaves Columbus traveling at a speed of 60 miles per hour. The cars' distances from Columbus at time t hours are shown in the table.

Car	A	B
Distance (miles)	$50t$	$60(t - 2)$

After how much time t will the two cars be the same distance from Columbus? **Hint: Set the two expressions as equal, then solve the equation.**

Bismark and Benedict will be the same distance from Columbus after _____ hours.

Try your best. Show and check your work. Circle your final answer.

6. **Solve.** Show all your work.

$$\frac{p}{12} + 3 = 8$$

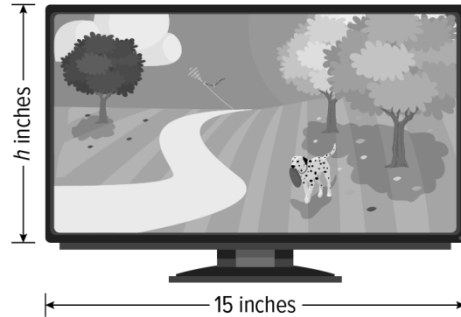
7. **Solve.** Show all your work.

$$\frac{x + 15}{10} = \frac{2}{5}$$

8. **Solve.** Show all your work.

$$|2b + 1| = 5$$

9. The screen of a standard television has a width to height ratio of 4 : 3.



Write and **solve** a proportion equation to find the height of a standard television screen with a width of 15 inches.

10. **Solve for a Variable.** The formula to convert Celsius to Fahrenheit is $F = \frac{9}{5}C + 32$, where F is the temperature in Fahrenheit and C is the temperature in Celsius. Solve for C .