

Solve each equation for the unknown value.

1) $3x + 2 = 8$

2) $-2(x - 4) = 10$

3) $\frac{2}{3}x - \frac{1}{4} = \frac{5}{4}$

4) $\frac{x}{4} + 2 = 7$

5) $\frac{x-1}{5} = 3$

6) $\frac{d+4}{2} = -5$

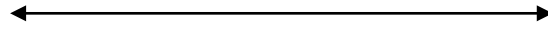
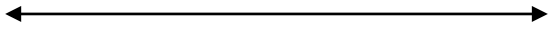
7) $-3(2x + 5) = 9$

8) $5(-3x + 12) = 15$

Solve and graph each inequality.

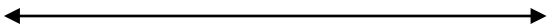
9) $-2x + 7 \geq 15$

10) $\frac{x+9}{2} < 4$



11) $-\frac{2}{3}r \leq 10$

12) $-4(2x - 3) > 20$



For each situation, **write the equation** and **solve it**.

13) Your mom will pay you 2 dollars for every chore you do around the house. How many chores do you have to do to earn \$26 dollars?

Equation:

x = _____

14) You are able to earn \$5 for every lawn you mow. You already have \$20. How many lawns will you have to mow to have \$80?

Equation:

x = _____