

Name _____

Solving Equations and Inequalities

Period _____ Group _____

Evaluate each expression.

1) $8 - (3)5 - 6$

2) $(-6)\left(\frac{25}{5} + 10\right)$

Solve each equation.

3) $23 + k = 2$

4) $2 - 8p = 26$

5) $-6(1 - 5x) = -126$

6) $-294 = 6(-7n - 7)$

7) $144 = -8(6 + 4m)$

8) $-28 - 8x = -4 - 2(2x + 8)$

9) $-33 + 7n = -5(1 - 7n)$

10) $-5r - 6 = -8(6r + 7) + 7$

Solve each proportion.

11) $\frac{5}{3} = \frac{2}{b}$

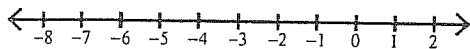
12) $\frac{x-1}{7} = -\frac{9}{4}$

13) $\frac{v+3}{2} = \frac{5}{9}$

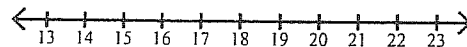
14) $\frac{x+7}{5} = \frac{x}{3}$

Solve each inequality and graph its solution.

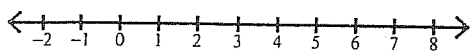
15) $a - (-6) \geq 3$



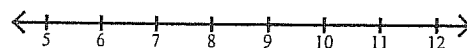
16) $3 < \frac{k}{6}$



17) $-15 - 8p \leq -8p - 5p$



18) $-8x - 14 < -4x - 6x$



19) Find three consecutive integers whose sum is -123.

20) The length of a rectangle is 5 inches more than the width. The perimeter is 90 inches. Find the length and width.