

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve the equation.

1) $3y = 7(7y - 4)$ 1) _____

2) $14(4x - 2) = 3x - 6$ 2) _____

3) $4(y + 6) = 5(y - 4)$ 3) _____

4) $4(2z - 2) = 7(z + 3)$ 4) _____

5) $4(2z - 2) = 7(z - 3)$ 5) _____

6) $-9x + 4(3x - 4) = -8 - 5x$ 6) _____

7) $\frac{1}{7}x - 3 = 1$ 7) _____

8) $\frac{1}{5}x + \frac{6}{5} = \frac{1}{7}x + \frac{8}{7}$ 8) _____

9) $-0.30(50) + 0.80x = 0.30(50 + x)$ 9) _____

10) $0.80x - 0.70(50 + x) = -0.60(50)$ 10) _____

Solve the formula for the specified variable.

11) $d = rt$ for t 11) _____

12) $A = \frac{1}{2}bh$ for h 12) _____

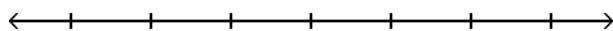
13) $V = \frac{1}{3}Ah$ for h 13) _____

14) $P = a + b + c$ for c 14) _____

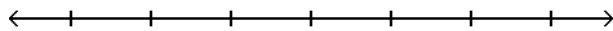
15) $A = P + PRT$ for R 15) _____

Solve the inequality. Graph the solution set and write it in interval notation.

16) $x + 1 < 7$ 16) _____

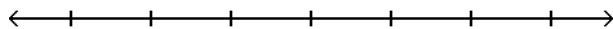


17) $6x - 11 > 5x - 10$



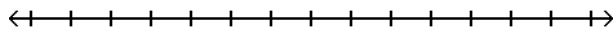
17) _____

18) $-\frac{1}{5}x < 3$



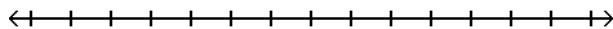
18) _____

19) $12 < 3x \leq 21$



19) _____

20) $8 \leq 3x + 2 \leq 17$



20) _____