

Semester 1 Exam Practice -

Part 1

Date_____ Period_____

Simplify each expression (note: these are NOT equations, you only combine like terms)

1) $4(2 + n) + 5n$

2) $-5(x - 6) - 8$

3) $-7 - 2(n - 5)$

4) $2(x - 4) + 1$

Solve each equation (note: these are 1-undo equations).

5) $10v = -10$

6) $-2n = 18$

7) $x - (-2) = -9$

8) $-15 = 11 + k$

Solve each proportion (use the property that the cross-products are equal).

9) $\frac{5}{4} = -\frac{3}{r-2}$

10) $\frac{x+7}{11} = \frac{3}{10}$

Solve each equation (note: these are 2- undo equations).

11) $\frac{k}{2} - 8 = -6$

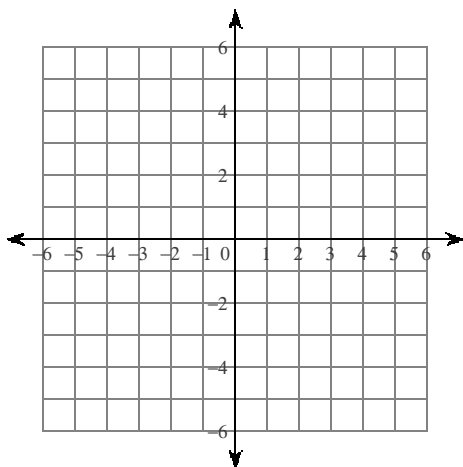
12) $11m - 6 = -182$

13) $-4(p + 4) = -104$

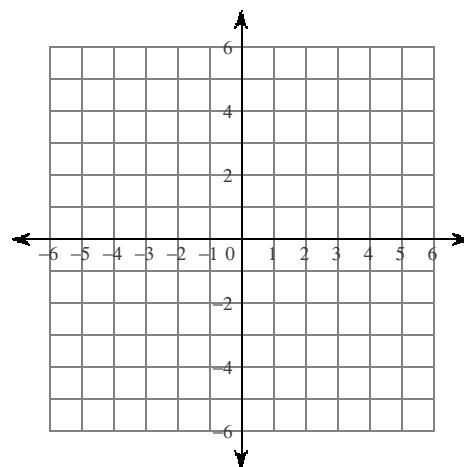
14) $-4x - 7 = 61$

Sketch the graph of each line (use a t-table, solve for y if not done already).

15) $y = -\frac{3}{5}x - 2$



16) $y = \frac{1}{4}x - 5$

**Find each percent change. State if it is an increase or a decrease.**

17) From 17 to 10

18) From 17 to 6

Answers to Semester 1 Exam Practice - 12-12-08 (ID: 1)

1) $8 + 9n$

2) $-5x + 22$

3) $3 - 2n$

4) $2x - 7$

5) $\{-1\}$

6) $\{-9\}$

7) $\{-11\}$

8) $\{-26\}$

9) $\{-0.4\}$

10) $\{-3.7\}$

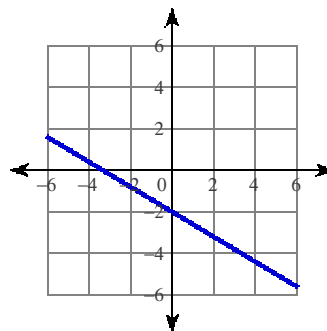
11) $\{4\}$

12) $\{-16\}$

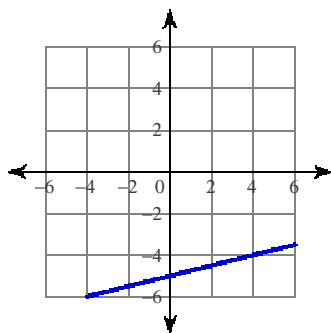
13) $\{22\}$

14) $\{-17\}$

15)



16)



17) 41% decrease

18) 65% decrease