

NAME: _____

WEEKLY REVIEW SHEET #12

DATE: _____

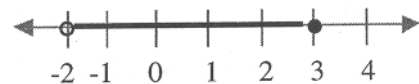
ALGEBRA

1 - 6 Multiple Choice. (3 points each)

- Simplify. $\frac{15}{0}$
a. 0 b. 1 c. 15 d. undefined
- The graph of the ordered pair $(3, -5)$ is in which quadrant?
a. I b. II c. III d. IV
- The multiplicative inverse of $-\frac{3}{7}$ is:
a. 1 b. $\frac{3}{7}$ c. $-\frac{7}{3}$ d. $\frac{7}{3}$
- What is the greatest possible error of 40.375 meters?
a. 0.05 m b. 0.005 m c. 0.0005 m d. 0.00005 m

5. Which inequality is represented by this graph?

- a. $-2 \leq x \leq 3$ b. $-2 < x < 3$
c. $-2 \leq x < 3$ d. $-2 < x \leq 3$



- If the points $(2, y)$ and $(5, 3)$ lie on a line whose slope is $-\frac{7}{6}$, what does y equal?
a. -6.5 b. -0.5 c. 0.5 d. 6.5

- Determine if y varies directly as x using the chart at right. If so, find the constant of variation. **(4 points)**

x	y
-4	8
5	-10
-6	12

8 - 9 Solve the following equations. (4 points each)

8. $\frac{5n}{6n+7} = \frac{3}{5}$

9. $\frac{2}{3}x + 1 + \frac{5}{3}x = \frac{13}{3}x - 1$

10. Given $nx - 7 > -2x - 19$, determine the largest integer value of n when $x = -2$.
(4 points)

Solve the following word problem. Be sure to include all necessary steps and clearly indicate the answer. (6 points)

11. Beth has 6 less quarters than nickels. She has \$3.00 in all. How many of each type of coin does she have?