Name Key

Algebra I Period _____ Date _____

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2.4-2.5 Review

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1. Find each quotient.

a. $-78 \div (-3)$

26

b. $-36 \div 4$

-9

c. $-\frac{3}{4} \div 12$

$-\frac{\cancel{3}^{1}}{4} \cdot \frac{1}{\cancel{12}_{4}}$

$\boxed{-\frac{1}{16}}$

d. $\frac{-3}{4} \div \frac{-2}{5}$

$-\frac{3}{4} \cdot \frac{5}{-2}$

$\boxed{\frac{15}{8}}$

e. $\frac{6}{7} \div \frac{3}{14}$

$\frac{\cancel{6}^{2}}{\cancel{7}_{1}} \cdot \frac{\cancel{14}^{2}}{\cancel{3}_{1}}$

$\boxed{4}$

f. $-\frac{1}{8} \div 2$

$-\frac{1}{8} \cdot \frac{1}{2}$

$\boxed{-\frac{1}{16}}$

2. Simplify each expression.

a. $\frac{-3(-12+8)}{7+(-5)}$

$\frac{-3(-4)}{2}$

$\frac{12}{2} = \boxed{6}$

b. $\frac{42c + -18d}{3}$

$\frac{42c}{3} + \frac{-18d}{3}$

$\boxed{14c + -6d}$

c. $\frac{-8f + (-16g)}{8}$

$\frac{-8f}{8} + \frac{-16g}{8}$

$\boxed{-f + -2g}$

d. $\frac{-2(7+1)}{3-7}$

$\frac{-2(8)}{-4}$

$\frac{-16}{-4} = \boxed{4}$

e. $\frac{105g}{5}$

$\boxed{21g}$

f. $\frac{7h+35}{-7}$

$\frac{7h}{-7} + \frac{35}{-7}$

$\boxed{-h + -5}$

3. Evaluate if a = 3, b = -4, c = -2.

a. $\frac{2ab}{-ac}$

$\frac{2(3)(-4)}{-(3)(-2)}$

$\frac{-24}{6}$

$\boxed{-4}$

b. $\frac{cb}{4a}$

$\frac{(-2)(-4)}{4(3)}$

$\frac{8}{12}$

$\boxed{\frac{2}{3}}$

c. $-\frac{ab}{-b} + \frac{c}{a}$

$\frac{-(3)(-4)}{-(-4)} + \frac{-2}{3}$

$\frac{12}{4} + \frac{-2}{3}$

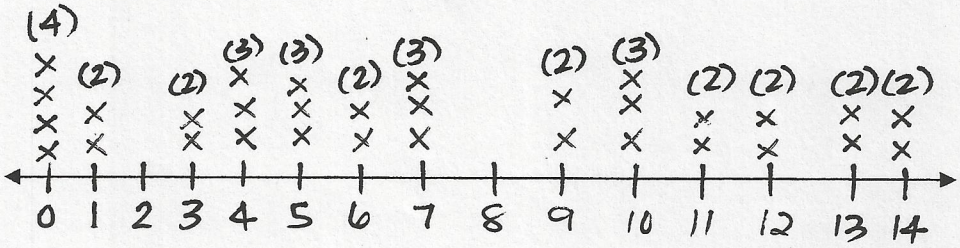
$\frac{9}{3} + -\frac{2}{3}$

$\boxed{+\frac{7}{3}}$

For Exercises 4 – 7, use the list that shows the number of hours students in Mr. Ricardo's class spent online last week.

7	4	7	11	3	1	5	10	10	0	9	4	0
14	13	4	11	3	1	12	0	9	13	14	7	6
10	5	12	0	6	5							

4. Make a line plot of the data



5. Which value occurs most frequently? 0

6. Find the mean: 6.75 median: 6.5 mode: 0

$\frac{216}{32}$

Does the mean, median or mode best represent the data? Explain.

mean or median. (They are very similar) The #'s are in the center of the data.

7. Use the data to make a stem-and-leaf plot.

68	66	68	88	76	71	88	93	86	64	73	80
81	72	68									

Stem	leaf
6	4, 6, 8, 8, 8
7	1, 2, 3, 6
8	0, 1, 6, 8, 8
9	3