

## Algebra I Homework: Week of Sept 10 – 12

### Monday, Sept 10

1. Complete Absolute Value Worksheet if not completed in class.
2. A jar contains 4 quarters, 3 nickels, and 8 dimes. If a coin is drawn at random, what is the probability that the coin is worth more than 5 cents?
3. Find the area of a semicircle with a diameter that measures 10 meters. (Use 3.14 for  $\pi$ )
4. Combine:  $2x + 4x + 11x - 2y - 13y$
5. Solve for x, then check:  $\frac{3x}{5} = \frac{6}{10}$
6. A winter coat costs \$420 and sales tax in your area is 8.25%. Find the total cost of buying the winter coat.
7. A car wash hired employees whose ages are given as follows: 27, 19, 18, 27, 17, 56, 29, 27. Determine the mean, median, and mode.
8.  $\frac{3}{5}$  of 30 is what **percent** of  $\frac{1}{3}$  of 60?

### Tuesday, Sept 11

1. Study for Quiz tomorrow on all 8<sup>th</sup> grade material, order of operations, absolute value, properties of real numbers.
1. Convert  $6\frac{1}{3}$  feet to inches
2. If eight oranges cost \$3.12, find the cost of three oranges.
3. If 5 oranges cost \$2.35, find the cost of a dozen oranges
4. A given triangle has sides of 8, 15 and 17. The longest side of a similar triangle is 51. Find the length of the shortest side of the second triangle.
5. You purchase 3 cans of dog food at \$ .54 cents each. Find the change you would receive from \$10.
6. Peter received a score of 80% on his test. There were 50 questions on the test (each question being worth the same amount of credit.) How many questions did Peter answer correctly?

### Wednesday, Sept 12

Quest Today on 8<sup>th</sup> grade material, order of operations, and absolute value.