

7th Grade 20 Day Homework Day 17

- 1) Karen earns \$400 per week plus an additional 4% of her sales. Her salary has increased by \$40 and her commission is now 6%. How much will she earn if her weekly sales are \$2500?
- 2) What is the probability of tossing two coins and getting heads on each coin?
- 3) Kathy's lunch cost \$16 which included tax. Kathy tipped 20% and reached for a \$20 bill. Did she have enough money?
- 4) Orchids are the most commonly sold type of potted flowering plants in the U.S. In 2010, sales reached \$171 million which was up 6% from the year before. What were the sales in 2009 rounded to the nearest million?
- 5) The U.S. Christmas tree market is approximately 13 million. If 619,000 of those trees are sold in Wisconsin, what percent of the Christmas tree market belongs to Wisconsin? Round to the nearest tenth.
- 6) Oskar found the mean and median of this list of numbers: 10, 30, 30. Explain what would happen to the median and the mean if the number 70 was added to the list.
- 7) Mr. Nagasinghe has $4 \frac{3}{5}$ pounds of flour in a container. He also has a box with 1.5 pounds of flour in it. If he pours one-fourth of the flour from the box into the container, how many ounces of flour will be left in the box?
- 8) Two rectangles are similar. The larger one has a length of 5.4 cm and a width of 3 cm. The smaller one has a width of 1.5 cm. What is the smaller rectangles length?
- 9) Label each table as either proportional or not proportional.

x	y
3	15
4	17
5	19
6	21

x	y
6	4
9	6
12	8
3	2

- 10) The following table gives the number of people picking strawberries in a field and the corresponding number of hours that those people worked picking strawberries. Graph the ordered pairs from the table. Does the graph represent two quantities that are proportional to each other? Explain why or why not.

x	y
1	3
7	1
4	2

