Homework Monday and Tuesday: Finding Unit Rates and Determining Constant of Proportionality

1. You can buy 5 oranges for $2.00.
    a. What is the unit rate for 1 orange?

    b. What is the unit rate for $1?

2. For three people, there are 5 candy bars.
    a. What is the unit rate for the number of candy bars for 1 person?

    b. What is the unit rate for the number of people for 1 candy bar?

3. In $12\frac{1}{2}$ minutes, Dulce read 50 pages.
    a. On average, how many pages did she read per minute?

    b. On average, how many minutes does it take to read one page?

4. Yazmin's heart rate was measured at 19 beats in a $\frac{1}{4}$ minute.
    a. How many beats per minute?

    b. How many minutes per beat?

5. In $\frac{1}{10}$ of an hour, Jane can clean $\frac{5}{8}$ of a window.
    a. What is her unit rate in windows per hour?

    c. Complete the table to show this relationship.

Time(hours)	1	2	3.5	10
Number of Windows				

    d. What is her unit rate in time per window?

7. Determine if each set of ratios below form a proportional relationship by finding the unit rate for each ratio.

a. $\frac{3}{7}$ $\frac{6}{14}$ Proportional?	b. $\frac{11}{5}$ $\frac{33}{16}$ Proportional?	c. 1:5 1:15 Proportional?
d. 6 to 10 3 to 7 Proportional?	e. $\frac{8}{12}$ $\frac{78}{100}$ Proportional?	f. 9:5 36:20 Proportional?
g. $\frac{20}{45}$ $\frac{24}{50}$ Proportional?	h. 9 to 15 3 to 5 Proportional?	i. 5:4 4:3 Proportional?
j. 16.3 to 10 18.2 to 12 Proportional?	k. $\frac{1}{3}$ to $\frac{1}{2}$ 1 to$1\frac{1}{2}$ Proportional?	l. $\frac{2/3}{2}$ $\frac{3/4}{3}$ Proportional?