Math 7 - Sections 1.1-1.3
Review Problems
Station # 5
Mixed Practice

<u>Things to remember</u>:

* Show steps clearly.

* Show steps as we discussed in class.

1) Jen drove 800 miles in 16 hours, Sasha drove 300 miles in 5 hours, and Ellen drove 500 miles in 10 hours. If they were all driving at constant speeds, which two girls were driving at the same rate? Explain (show) your reasoning using the concept of unit rate.

$\dfrac{mi}{hour}$

Jen	Sasha	Ellen
$\dfrac{800}{16}$	$\dfrac{300}{5}$	$\dfrac{500}{10}$
50 mi/hr	60 mi/hr	50 mi/hr

Jen + Ellen are both driving
at 50 mi/hr.

2) If each mix is made with only these three ingredients, which one contains more chocolate per ounce?

> **Awesome Snack Mix**
> 12 oz chocolate chips
> 9 oz peanuts
> 25 oz Cheerios
>
> **Crunchy Snack Mix**
> 9 oz chocolate chips
> 3 oz peanuts
> 15 oz Cheerios

46 oz   27 oz

$$\frac{Choc}{total \ oz} \qquad \frac{12}{46} \qquad\qquad \frac{9}{27}$$

.2608   .$\overline{3}$ ✳

Crunchy

3) Use this data from a survey of 100 students to decide if the statement is _true or false_.
If false show why it is false.
One out of eight students eat a snack as soon as they get home from school?

What do you do first when you
get home from school?

Activity	Number of students
Eat a snack	40
Do homework	10
Watch TV	20
Go to sports practice	30

$$\frac{snack}{total} \qquad \frac{40}{100} = \frac{2}{5}$$

False. It should say 2 out of 5 students...

4) Find the BEST BUY based on unit price for these tissues.

* **Best Buy**

Puffs (4 pack for $6.79)
(Each box has 300 tissues)

$4(300)=1200$

$$\frac{cost}{tissue}$$

$$\frac{6.79}{1200}$$

$0.005\underline{6}5$ $\$0.01/tissue$

Kleenex (1 box for $2.89)
(175 tissues)

$$\frac{2.89}{175}$$

$0.0165l$ $\$0.02/tissue$

So Soft (2 boxes for $4.29)
(Each box has 250 tissues)

$250(2)=500$

$$\frac{4.29}{500}$$

0.00858 $\$0.01/tissue$

Best Buy is Puffs

5) Which of these trail mix recipes is more "chocolaty" (more chocolate per total ounces)? Explain your reasoning.

<u>Trail Mix A</u>
 30 oz cheerios
 4 oz raisins
 10 oz M&M's
 ___
 44

<u>Trail Mix B</u>
 40 oz cheerios
 2 oz raisins
 12 oz M&M's
 ___
 54

$$\frac{choc}{total} \qquad \frac{10}{44} \qquad \frac{12}{54}$$

$$0.227 \qquad\qquad 0.222 \text{ smaller}$$

larger

(Trail mix A)

How many of these do you know without using the memory list?

1) 1 minute = _____60_____ seconds

2) ___36____ inches = 1 yard

3) 1 gallon = _____4_____ quarts

4) _1000_ millimeters = 1 meter

5) 1 century = ___100___ years

6) 1 ton = ___2000___ pounds

7) 1 mile = _5280_ feet

8) 1 pint = ___2___ cups

9) 1 yard = ___3___ feet

10) 1 cup = ___8___ fluid ounces

11) _1000_ grams = 1 kilogram

12) ___16___ ounces = 1 pound

13) 1 centimeter = ___10___ millimeters

14) 1 millennium = _1000_ years

15) 1 liter = __1000__ milliliters

16) 1 day = __24__ hours

17) __12__ inches = 1 foot

18) __4__ cups = 1 quart

19) 1 kilogram = __1000__ grams

20) 1 hour = __60__ minutes

21) __52__ weeks = 1 year

22) __100__ centimeters = 1 meter

23) 1 kilometer = __1000__ meters

24) __365__ days = 1 year

25) __10__ years = 1 decade