Name _____ Date _____ Hour _____

Unit 3 Review

1. Below are the prices for 5 different sizes of pop at the movie theater. Determine which size is the best value (cost per oz). Explain.

Size	Cost ($)	Size (oz)
Kiddie	0.50	5
Small	2.00	12
Medium	3.00	18
Large	4.50	22
X - Large	6.00	32

2. Mya works 8 hours and gets paid $92.
   a. Compute both unit rates.
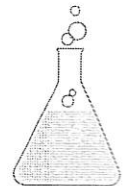   Unit Rate #1   Unit Rate #2

   b. Explain what each unit rate means.
      Unit Rate #1   Unit Rate #2

3. Mrs. Gustafson is mixing chemicals for an experiment. For every 10 mL of water, she adds 40 mL of bleach. Set up and solve a proportion to determine how much water Mrs. Gustafson needs if she uses 260 mL of bleach.

4. A biker travels 8 miles in 10 minutes. Another biker travels 20 miles in 30 minutes. Do these two rates form a proportion? Explain.

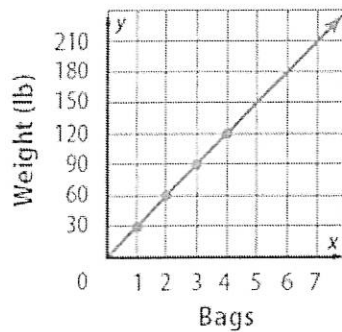5. Solve each of the following proportions.

$$\frac{x}{18} = \frac{7}{6}$$

$$\frac{21}{14} = \frac{s}{4}$$

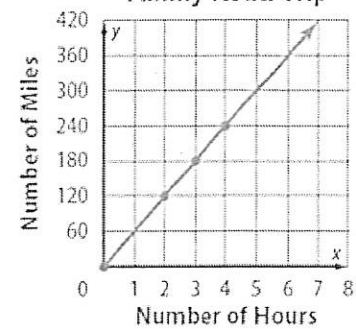6. Find the unit rate for each of the situations below.

a.

Luggage

Weight (lb) vs Bags

b.

Family Road Trip

Number of Miles vs Number of Hours

c.

Amusement Park Ticket Costs

Number of Adults	1	2	3	5	10	100
Cost of Tickets ($)	75	150	225	375	750	7,500

d. $c = 10p$

c is the cost

p is the number of people

e. $m = 12.50h$

m is the amount of money you earn

h is the number of hours you work