## Get out your homework and start checking your answers. TEST TOMORROW

## Classwork - Test Review Day 2

1) It costs \$49 for 8 people to go to the movies. How much does it cost for one person (unit rate)? SHOW WORK

2) Gerbes is selling macaroni and cheese at 5 boxes for \$4. Schnuck's has it on sale \$6.56 for 8 boxes. HyVee sells if 3 boxes for \$2.37. Find the unit rate for all three stores and decide where is the best place to get the cheaper box of Macaroni and cheese?

- 3) The ratio of cats to dogs in a pet store is 4 to 6.
- A) If there are 14 cats in the store, how many dogs are in the store?

B) What percentage of the pets in the store are dogs?

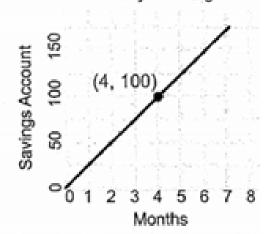
4) The graph to the right shows how much money is in Becky's savings account over the past 8 months.



After 4 monters Brady saves \$100

-B) Is the data shown proportional? (Make a table)

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(6)	1	25	All ratios	
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Becky's Savings

C) If proportional, what is the constant of proportionality? D) How much would she save after 10 months?

E) Is she saving money at a constant rate? Explain.

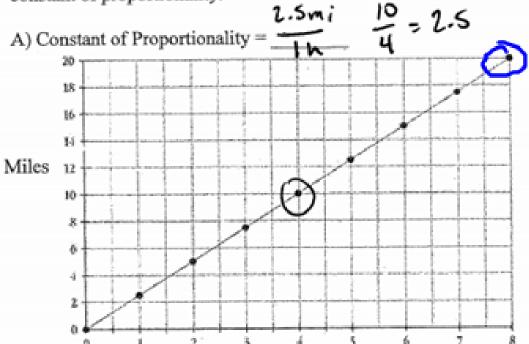
Determine if the table to the right displays a proportional relationship. If the data is proportional, find the constant of proportionality.

I	Time	Distance
	(weeks)	(miles)
	2	130
	4	280
	8	480
	16	1056



6) Each of the following situations represent a proportional relationship. For each situation, determine the

constant of proportionality.



B) Constant of Proportionality = 6 mi

Time	Distance
(hours)	(miles)
3	18
4	24
6	36
- 10	60

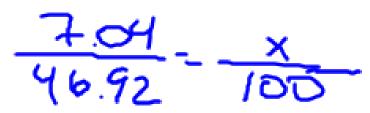
C) What does the point (4, 10) represent in the graph shown above in #6A?

4 hours 10 miles

Hours

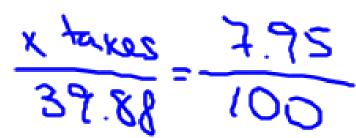
- 1) Barry is going JC Penney and buys \$46.92. He has a coupon for his purchase that he gives the cashier.
  - A) The new price of the clothes is \$39.88 after the discount. What percent discount did the coupon give him? SHOW WORK

    \$46.72-\$37.88



Piscount = \$7.04

B) Barry must pay a 7.95% tax on the clothes he buys. What will be his total cost for the clothes after tax?





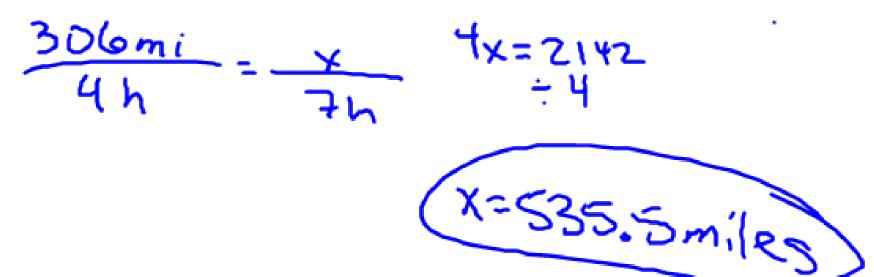
 Look at the proportion below and make up a word problem in which you would set this proportion up to solve for the missing number.

$$\frac{\$x\ tip}{\$48.35} = \frac{22\%\ tip}{100\%}$$

Word problem:

Solve you word problem you made.

3) Josh is driving 306 miles is four hours. If drives the same speed, how many miles can he drive in 7 hours?



4) On a map scale, 2 inch represents 150 miles. If you measure the distance from Flagstaff, AZ and Columbia, MO on the map, it is 16 inches. How many miles would this represent?

- Aidan owns a grocery store and is buying food and drinks to sell to his customers. Suppose he buys a box of Cinnamon Toast Crunch for \$2.29 from the manufacturer.
  - A) Before he sells it to the customer, he marks up the price 30%. What cost will customers pay for the box of cereal when they check out at the register? SHOW WORK.

x = 30

x=0.687 Markup=\$0.69

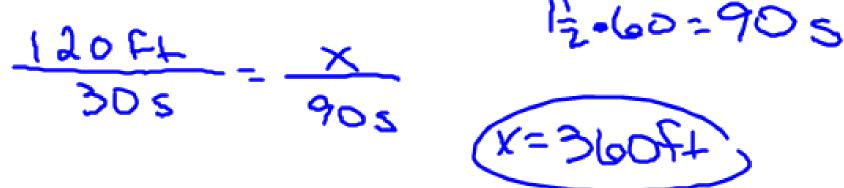
B) If a customer buys a box of Cinnamon Toast Crunch, how much will they pay if the sales tax rate is 8.15%? SHOW WORK

2.98 (20)

45.0\$=X

20.50+45.08 + 43.55

6) Kellen runs 120 feet in 30 seconds. If he keeps running at this speed, how many feet can he run in  $1\frac{1}{2}$  minutes?



7) The ratio of black to blue pens in Mark's bag is 2:3. If his bag has a total of 30 black and blue pens, how many blue pens does he have? (hint: In the 2:3 ratio, how many total pens are in one group?)

8) Johnny has to drive 235 miles to get to his destination. If he has covered about 33% of the distance. How far has he driven? How many more miles does he need to drive to get to his destination?

$$\frac{x}{235m} = \frac{33}{100}$$