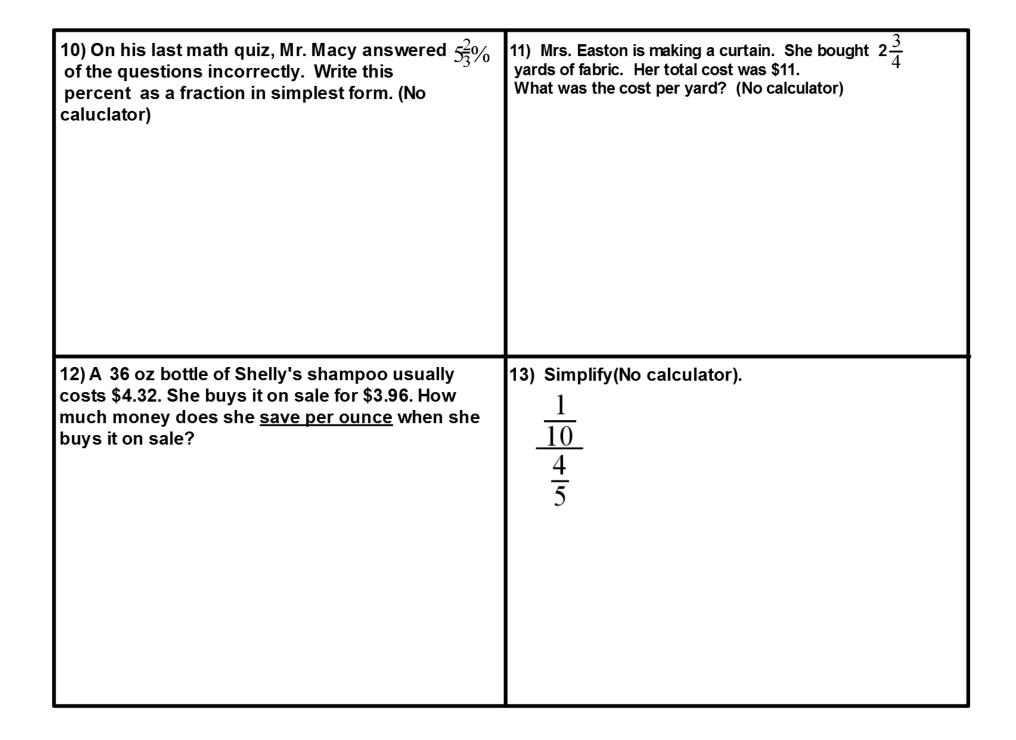
Directions: SHOW ALL STEPS as discussed in class. You may use a calculator on some problems.

- 1) Tara typed for 12 minutes and produced 456 words. Find the unit rate.
- 4) A bag of 24 jolly ranchers cost \$2.89. Another bag costs \$4.59 and contains 50 jolly ranchers. Find the best buy based on unit price.

- 2) There are 180 students in the 7th grade at LMS. If there are 100 boys in the class, find the ratio of girls to boys.
- 5) It takes Linda 20 minutes to read $8\frac{1}{3}$ pages of a book. What is her average reading rate in pages per minute? (No calculator)
- 3) Simplify. Do not convert to decimals. (No calculator)

 $\frac{2\frac{1}{4}}{36}$

6) Write 11 $\frac{1}{9}$ % as a fraction in simplest form. (No calculator)	8) A two pound bag of candy costs \$4.79. A twenty ounce bag costs \$2.75. Find the <u>better buy based on unit price</u> . (Remember 1 pound = 16 ounces)
7) There are 48 jolly ranchers in a 20 ounce bag that costs \$3.89. Find the cost per jolly rancher.	9) Two bottles of Spicy barbeque sauce, each bottle 24 ounces, cost \$4.89. Three bottles of Mild barbeque sauce, each bottle 18 ounces, cost \$6.29. Find the best buy based on unit price.



14) Use this data from a survey of 100 students to decide if the statement is <u>true or false</u>. 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

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

Trail Mix A	<u>Trail Mix B</u>
30 oz cheerios	40 oz cheerios
4 oz raisins	2 oz raisins
10 oz M&M's	12 oz M&M's

16) Matt runs at a speed of 720 feet per minute. How many feet per hour is this ? Show steps using dimensional analysis.		
17) An elephant drinks about 225 liters per day. Use dimensional analysis to show how many milliliters per hour this is.		
18) Convert 48.5 cm/sec to meters per minute using the process of dimensional analysis.		

19) Use the table on page 201 in your textbook and the process of dimensional analysis to convert 31 inches to centimeters. Round to the nearest hundredth.	20) Use the table on page 201 in your textbook and the process of dimensional analysis to convert 245 milliliters to quarts. Round to the nearest hundredth.
21) Use the table on page 201 in your textbook and the process 400 meters/hour OR 4 inches/second	of dimensional analysis to decide which is the fastest speed.