

## 5

## Family Letter

**Dear Parent or Guardian:**

This chapter contains mathematics often used in real-world situations. Percents are used everyday: to figure a tip, to express chance, and to describe amount, and these are just a few ways that we use percents!

In **Chapter 5, Percent**, your child will learn about ratios, percents, to compare fractions, decimals, and percents, the percent proportion, estimating percent, the percent equation, percent of change, and simple interest. Your child will also learn to solve problems by determining if an answer is reasonable. In the study of this chapter, your child will complete a variety of daily classroom assignments and activities and possibly produce a chapter project.

By signing this letter and returning it with your child, you agree to encourage your child by getting involved. Enclosed is an activity you can do with your child that practices how the math we will be learning in Chapter 5 might be tested. You may also wish to log on to **www.msmath3.com** for self-check quizzes and other study help. If you have any questions or comments, feel free to contact me at school.

Sincerely,

Signature of Parent or Guardian \_\_\_\_\_ Date \_\_\_\_\_

**5 Family Activity****State Test Practice**

Fold the page along the dashed line. Work each problem on another piece of paper. Then unfold the page to check your work.

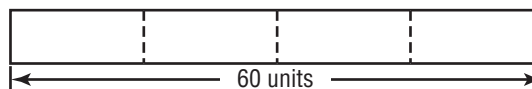
1. Mr. Kirker was grading his class' math tests. He stopped and started several times. He ended up with grades in fraction form, percent form, and decimal form. On the list below are the scores of the the top three tests in the pile. Put these in order from best to worst scores.

Jimmy	$\frac{14}{20}$
Andrea	75.00%
Billy	0.085

Which choice shows the test scores in the proper order?

- A  $0.85, \frac{14}{20}, 75\%$     C  $0.85, 75\%, \frac{14}{20}$   
 B  $75\%, 0.85, \frac{14}{20}$     D  $\frac{14}{20}, 0.85, 75\%$

2. Use the model below to estimate the value of 85% of 60.



What number would be about 85% of 60?

- A 30  
 B 20  
 C 45  
 D 50

**Fold here**

**Solution**

1. *Hint: First change the numbers so that they are all in the same form before comparing them.*

Jimmy's grade is in fraction form. Changing the fraction to a decimal, his score is  $14 \div 20$ , or 0.70.

Andrea's grade is in percent form. In order to change a percent to a decimal, you divide by 100. Her score in decimal form is  $75 \div 100$ , or 0.75.

Billy's grade is already in decimal form. Putting the grades in descending order (best to worst), we have: 0.85, 0.75, 0.70.

Replacing the grades with their original forms, it becomes: 0.85, 75%,  $\frac{14}{20}$ .

The answer is **C**.

**Solution**

2. *Hint: Eliminate the unreasonable answers and then evaluate the ones left.*

30 is 50% of 60, so Options A and B can be eliminated immediately, since both are less than 85%.

75% is halfway between 50% and 100%, and 45 is halfway between 30 and 60, so Option C can be eliminated.

Through the process of elimination, 85% of 60 is about 50. Checking the assumption on the number line above, it makes sense that 50 would approximately correspond with 85%.

The answer is **D**.