Applying Proportional Relationships: Percent

Math 1, Unit 4 — Anaheim Union High School District

Dear Student & Parent/Guardian,

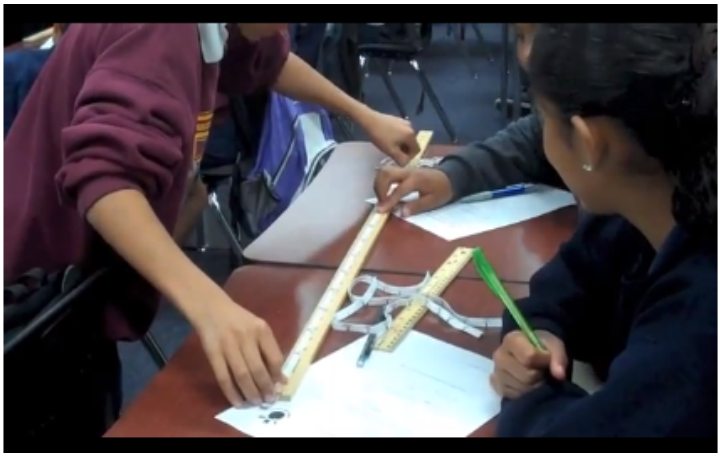
In this unit we extend our knowledge of proportional relationships to solve real-world problems involving percent.

Students will learn to solve a wide variety of problems involving discounts, tax, tip, percent increase, percent decrease, mark-ups, commission and interest by participating in lessons in which we use an *elastic percent ruler*, do some party planning and shopping - with coupons and play *FRACTZEE!*

-AUHSD Math Teachers

Why are we studying this?

Being able to use proportions to solve problems involving percent is crucial in today's world market. On a daily basis, consumers, retailers, accountants, business professionals and many, many others use percent and their decimal and fraction equivalents to help make decisions involving purchases, sales, and financial forecasts.



What is 75% of the total length of your desk?

Sample question:

1 CHKN MEAL2pc	4.69
2PC LG/TGH	
Corn Tort	
IN RICE	
IN BEANS	
1 CHKN MEAL2pc	5.99
2PC BRST/WG	
Flour Tort	
IN CORN 1pc	
IN BEANS	
1 Chk Scratch	0.00
Cash	20.00
Food	10.68
Tax	0.77
Payment	11.45
Change Due	8.55

If you want to leave a 20% tip, how much would that be?

Real World Applications in this Unit

Missy started an exercise program, and at her first weigh-in she was 190 pounds. At the second weigh-in she lost 14% of her weight. At the third weigh-in she lost 12% of her second weigh-in weight. How much weight did she lose altogether?

A Note About Homework:

Homework in this unit will contain a spiral review of topics previously learned in Math 1 as well as topics concurrent with the unit of instruction. Topics include:

-Translating Words into Algebraic Expressions

-Proportional Relationships

-Operations with Fractions, Decimals, and Percent

-Operations with Integers

-Slope

Essential Questions Addressed in this Unit:

-Is percent an absolute or relative (elastic) number?

-How does percent change depending upon the whole?

-How can you determine the best deal?