Foundations of Math 1 **2.9 Percents** Unit 3 Day 10

Percents are useful because they standardize comparisons to a common base of 100. You can solve problems involving percents using proportions!

**Percent Proportion:** 

**Finding a percent using the Percent Proportion**

1. What percent of 56 is 42?
2. What percent of 90 is 54?

**Percent Equation:** 

Where “a is p percent of b”, and percent is in decimal form.

**Finding a Percent Using the Percent Equation**

1. What percent of 40 is 2.5?
2. What percept of 84 is 63?

**Finding a Part**

1. A dress shirt that normally costs $38.50 is on sale for 30% off. What is the sale price of the shirt?
2. A family sells a car to a dealership for 60% less than they paid for it. They paid $9000 for the car. For what price did they sell the car?

**Finding a Base**

1. 125% of what number is 17.5?
2. 30% of what number is 12.5?

**2-9 Game: Greater Than or Less Than Percents?**

Twenty-four percent problems are listed below. Players take turns challenging each other by choosing a question that must be answered on a separate sheet of paper. A problem can only be selected once. Two racetracks are provided at the bottom of the page. Players fill in a block for each correct answer. Players must agree on the correct answer. The first player to complete the course wins! If neither player completes the course, then the player who advances the farthest wins.

* 1. Is 20% of 200 greater than or less than 100?
  2. Is 2% of 1000 greater than or less than 30?
  3. Is 80% of 20 greater than or less than 10?
  4. Is 90% of 120 greater than or less than 110?
  5. Is 150% of 2 greater than or less than 4?
  6. Is 70% of 70 greater than or less than 50?
  7. Is 43% of 33 greater than or less than 11?
  8. Is 20% of 18 greater than or less than 8?
  9. Is 1% of 180 greater than or less than 2?
  10. Is 30% of 180 greater than or less than 100?
  11. Is 10% of 800 greater than or less than 70?
  12. Is 67% of 15 greater than or less than 10?
  13. Is 25% of 80 greater than or less than10?
  14. Is 75% of 8 greater than or less than 5?
  15. Is 30% of 70 greater than or less than 15?
  16. Is 5% of 40 greater than or less than 3?
  17. Is 18% of 18 greater than or less than 9?
  18. Is 25% of 15 greater than or less than 7?
  19. Is 55% of 80 greater than or less than 40?
  20. Is 60% of 45 greater than or less than 22?
  21. Is 72% of 80 greater than or less than 60?
  22. Is 95% of 70 greater than or less than 35?
  23. Is 66% of 6 greater than or less than 4?
  24. Is 25% of 800 greater than or less than 100?

