

## Unit O Hints and Helps

There are three types of word problems that you will face in this unit. They are divided by how you set up the equation. The three categories are:

1. The sum of two values is a total --  $P_1 + P_2 = S$
2. There is a difference between two values --  $P_2 + D = P_1$
3. The two values given are equal to each other --  $P_1 = P_2$

It is important that you remember that  $P_1$  and  $P_2$  represent the product of two numbers related to the topic of the problem. There are three topics that you will face in Chapters 2 and 3, and then a slightly different topic in Chapter 4. The three topics are:

1. Distance (rate • time)
2. Interest (principle • percentage rate)
3. Money Value (number of coins • the value of one of the coins)

The tables below show some key words and concepts that you will find in the problems that indicate which type of equation you will need to set up using the topics. \*Caution: the words may not appear exactly as you see them below. But they WILL be close!

$$P_1 + P_2 = S$$

Distance	Interest	Money Value
Total distance traveled Distance between Pass each other Miles apart	Earned a total of.. Total earnings Together they earned...	Total value is.. Worth a total of.. Together they have...

$$P_2 + D = P_1$$

Distance	Interest	Money Value
Head Start .... Catch Up Get ahead overtake	___ Earned \$ more than ___	Value of ___ is \$ more than ___

$$P_1 = P_2$$

Distance	Interest	Money Value
Round trip Repeat trip Same trip Catch Up	Earned the same amount	Value of money is the same