**Example**: Sport Check offers a 10% discount one day and then an additional 10% off the sale price the next day! Sports Mart offers a 20% discount on one day only. Adam wants to buy a new helmet that has a regular price of $150.

a)Which store gives the better buy? Explain.

b)What single percent discount is equivalent to a discount of 10% one day followed by an additional discount of 10% off the sale price the second day?

What is the final sale price at each store? Which is the better buy?

Store A: 50% off one day only

Store B: 25% off one day followed by 20% off the reduced price the second day.

**Example:** Suppose GST is 6% and PST is 11%. Calculate the total tax and total cost of a sound system that is priced at $499.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_can be used to determine amounts that result from consecutive percent increases or decreases.

**Example:**

There are 800 geese that live in a given water shed. In the first year, their population decreases by 5%. In the second year, their population decreased by 10%. How many geese are left after the second year?

Percents can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by adding to solve problems. 5% + 7% = \_\_\_\_\_\_\_\_\_\_

To calculate the increase in a number you can …..

1.….combine percent amount to the original number.

2.…multiply the original number by a single percent greater than 100.

**4 – Understanding Percent**

**4.4 Combining Percents**