

8.4 Combining Percents

What are PST and GST?

The rates of taxes in British Columbia are:

GST: 5%

PST: 7%

HST: 12% (Not used any more)

\$250 + \$30 = | \$280

Example:

A Coach Purse costs \$250. If there is 7% PST and 5% GST, what is the cost of the jacket after taxes?

Method 1: Finding the taxes separately

$$PST = 7\% \text{ of } $250$$

$$= 0.07 \times $250$$

$$= $17.50$$

$$= $12.50$$

$$= $12.50$$

$$= $36.00$$

$$= $7074L COST?$$

Method 2: Combining the percents together

Is there any other method?

This is like having a 12% increase.

Summary:

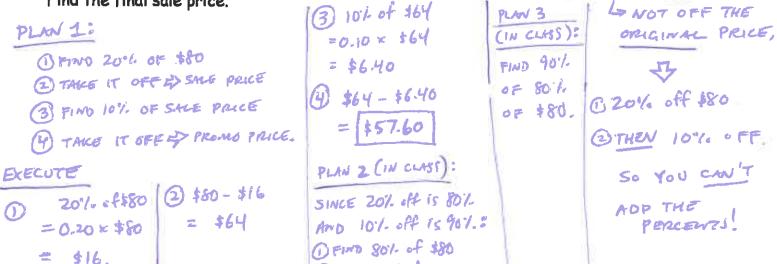
When can you add percents together?

WHEN THEY ARE PERCENTS OF THE SAME NUMBER.

Example:

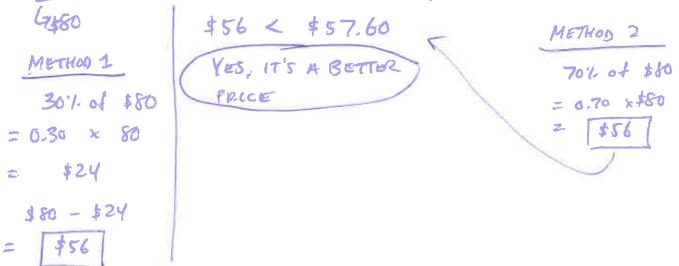
1) Weeble Wobbles have a retail value of \$80. They are tagged as being 20% off. Today, as part of a one day promotion, everything is reduced by 10% of the sale price.

Find the final sale price.



(3) FIND 90% of SALE PRICE

2) Fran finds Weeble Wobbles on sale at another store. They have the same retail price, but are on sale for 30% off. Is this a better price?



3) Why is a 20% discount followed by a 10% discount NOT the same as a 30% discount?

BECAUSE THE 10% IS OF A DIFFERENT NUMBER THAN THE 20%

