

## 2.4 sales tax and discounts

Thursday, November 19, 2015 12:54 PM

SALES TAX AND DISCOUNTS

Name: \_\_\_\_\_ Blk: \_\_\_\_\_

- Adding Sales Tax

- a. An iPhone 6 is \$750 before taxes. The sales tax in BC is 12%. How much is the ~~ipad~~ <sup>iphone</sup> with taxes?

Method 1: Calculate the taxes and add to the original price

$$① 12\% = 0.12$$

$$② 750 \times 0.12 = \$90$$

$$③ \$750 + \$90 = \boxed{\$840}$$

Method 2: Calculate the total price as a percentage of the original price

percentage total is 112%

$$① 112\% = 1.12$$

$$② 750 \times 1.12 = \boxed{\$840}$$

- Subtracting Discounts

- a. A scientific calculator is priced at \$30. It is on sale for 25% off. What is the sale price of the calculator?

Method 1: Calculate the discount and subtract from the original price

$$① 25\% = 0.25$$

$$② 30 \times 0.25 = 7.5$$

$$③ 30 - 7.5 = \boxed{\$22.50}$$

Method 2: Calculate the total price as a percentage of the original price

$$① 100\% - 25\% = 75\%$$

$$② 75\% = 0.75$$

$$③ 0.75 \times 30 = \boxed{\$22.50}$$

- Discounts AND Taxes

- a. An Xbox One is priced at \$350. It is on sale for 15% off. If the sales tax is 12%, what is the total price of the Xbox?

① Find the sale price

$$100 - 15 = 85$$

$$350 \times 0.85 = 297.50$$

② Find the sale price + tax.

$$297.5 \times 1.12$$

$$= 333.20$$

HW : finish the back of the handout  
5.1-5.4 BIG QUIZ MONDAY NOV. 30

Ma8

b. A sweater in a clearance store went through a series of reductions. The regular price of the sweater was \$125. The sweater was first reduced by 20%. Three weeks later, the sweater was reduced by a further 20%. Later in the year, the sweater was advertised for sale at  $\frac{3}{4}$  off the current price. If Jill wants to buy the sweater, she has to pay 11% sales tax. Jill only has \$40.

- a. Can she buy the sweater?
- b. If yes, how much money will she have left over? If no, how much more money does she need?

- Finding the Original Price

- a. A pair of sneakers is on sale for 15% off. The sale price of the sneakers is \$70. What was the original price of the sneakers?