

Name: _____

Math 10W Unit 1 Assessment Quiz 2

*show all of your work.

1. A new shirt costs \$25 and a pair of jeans cost \$55. What would be the total cost including taxes? (PST is 7% and GST is 5%).

$$\text{SHIRT} + \text{JEANS} = 25 + 55 = \$80$$

TAX IS 12%. TOTAL SO MULTIPLY BY 0.12

$$80 \times 0.12 = \$9.60 \quad \text{SO TOTAL COST} = \$89.60$$

2. Gift department items are marked up 45% in a store. If an item costs \$12.45 for the store to purchase from the wholesaler, what price will the store sell the item to the customer?

$$45\% \text{ IS } 0.45$$

$$\text{SO } 12.45 \times 0.45 = \$5.60$$

$$\text{SO COST TO THE CUSTOMER} = 12.45 + 5.60$$

$$= \$18.05$$

3. Frank works at a store that offers an employee discount of 15% off all purchases at regular price. He would like to purchase a sweater that has a regular price of \$45. Right now there is a coupon for \$5 off the regular price. Should he use the \$5 off coupon or use his 15% employee discount?

$$\text{\$5 OFF COUPON WOULD BE } 45 - 5 = \text{\$40}$$

$$\text{15\% DISCOUNT } 45 \times .15 = \text{\$6.75 OFF}$$

$$\begin{aligned} \text{SO SWEATER} &= 45 - 6.75 \\ &= \text{\$38.25} \end{aligned}$$

THE 15% OFF IS A BETTER DEAL.

4. The current exchange rate is 1 Canadian dollar to 0.75 US dollars. If you are going shopping in the US and have \$150 Canadian dollars, how much US dollars will you receive?

$$\begin{array}{c} \text{CDN} = 0.75 \text{ US} \\ \downarrow \quad \quad \quad \downarrow \\ \text{\$150 CDN} = \quad \quad \quad \text{\$X} \end{array}$$

$$150 \times 0.75 = \text{\$112.50}$$

YOU GET \$112.50 USD.