

3-8-19

Aim: SWBAT apply knowledge of conversions to complete multistep problems.

HW: Test Wednesday

Do Now: Continue the WP activity

1. Local sales tax is 7.5%. If Jon buys a new shirt for \$24, what is the total cost of the shirt?

$$\begin{array}{l} \text{Subtotal} + \text{tax} = \text{total} \\ \downarrow \quad \quad \quad \downarrow \\ \$ 24 + \$ 1.80 = \$ 25.80 \end{array}$$

2. A restaurant charges a gratuity of 20% on parties of 8 or more. If the bill was \$256, what would be the total cost of the meal?

$$\begin{array}{l} \text{Subtotal} + \text{tip} = \text{total price} \\ \downarrow \quad \quad \quad \downarrow \\ \$ 256 + \$ 51.20 = \$ 307.20 \end{array}$$

3. A pair of shoes cost \$15 to manufacture. If they are marked up by 30%, what will they sell for?

$$\begin{array}{l} \$ \quad \quad \% \quad \text{wholesale} + \text{markup} = \text{retail price} \\ \frac{X}{15} = \frac{30}{100} \text{ mark} \quad \downarrow \quad \quad \downarrow \\ 15 + 4.50 = \$ 19.50 \end{array}$$

4. A family went to a local restaurant for dinner. If the bill was \$60 and they used a 25% off coupon, how much was their meal? If they left a 15% tip, what is the final total of the meal?

$$\text{price} - \text{discount} = \text{Subtotal}$$

$$\$60 - \$15 = \$45$$

$$\text{Subtotal} + \text{tip} = \text{total}$$

$$\$45 + \$6.75 = \$51.75$$

5. Services at a salon cost you \$240. The sales tax is 9% and you want to leave a 20% tip. How much money will you spend altogether?

$$\text{Subtotal} + \text{tax} + \text{tip} = \text{total price}$$

$$\frac{X}{240} = \frac{20}{100} \text{ tip}$$

$$\$240 + \$21.60 + \$48 = \$309.60$$