

Group Members: \_\_\_\_\_

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1. Max took a test that had 38 questions. He answered 29 of them correctly. What percent did he get correct?

$$\begin{aligned}\frac{x}{100} &= \frac{29}{38} \\ 38x &= 2900 \\ x &= \frac{2900}{38} \approx 76\end{aligned}$$

Max got 76% correct.

2. Max was so happy that he passed his exam, he decided to go shopping. He found a shirt that cost \$24, but it was on sale for 22% off. What is the sale price of the shirt?

$$.78(24) = 18.72$$

The sale price of the shirt is \$18.72.

3. Max only has \$20 and sales tax in his county is 7%. Does he have enough money to buy the shirt?

$$1.07(18.72) = 20.03$$

No, Max does not have enough to buy the shirt.

4. Max found a pair of pants that were marked with a sale price of \$44. The sale is listed as an 18% off sale. Since he would have to pull out his credit card to buy these pants he wants to make sure it is worth it. He decides that if he saves more than \$5 on the pants, then he'll buy them. How much money will he save if he buys the pants?

$$\begin{aligned}\frac{82}{100} &= \frac{44}{x} \\ 82x &= 4400 \\ x &= \frac{4400}{82} \approx 53.65\end{aligned}$$

$$53.65 - 44 = 9.35$$

Max will save \$9.35.