

1. John earns 15% of total sales in commission. What is his commission if he sells \$20,450 worth of products?

$$\begin{aligned} \text{Commission is } 15\% \text{ of total sales} \\ \text{Commission} &= (0.15) \cdot (20450) \\ &= 3067.5 \end{aligned}$$

His commission is \$3067.50

2. Suppose Roger earns 12% commission for selling a house, and receives \$60,000 in commission. What was the amount of the sale?

$$\begin{aligned} \text{Commission is } 12\% \text{ of total sale} \\ \frac{60000}{0.12} &= \frac{0.12 \cdot X}{0.12} \end{aligned}$$

$$500000 = X$$

The sale was \$500000.

3. What would you need on a 60-point test to get an 85%?

$$\begin{aligned} \text{What score is } 85\% \text{ of } 60? \\ X &= (0.85) \cdot (60) \end{aligned}$$

$$X = 51$$

You would need 51 points.

Q: A man has coffee and a fly flies into it. He asks the waiter to give him a new cup of coffee. The waiter takes coffee, and a few moments later comes back with a cup of coffee. The man says, "This is the same cup of coffee--you just took the fly out!" How could he know?