

1. Tony gets a \$2000 raise, which is a 5% increase relative to his former salary. What was his former salary?

Raise amount = 5% of former salary

$$\frac{2000}{0.05} = \frac{(0.05) \cdot x}{0.05}$$

$$40000 = x$$

His former salary was \$40000.

2. Tiany's new salary is \$75,000 after she receives a 6% raise. What was her old salary?

old salary + raise = new salary  
 raise = 6% of old salary

$$x + 0.06x = 75000$$

$$\frac{1.06x}{1.06} = \frac{75000}{1.06}$$

$$x \approx \$70754.72$$

Her old salary was \$70754.72.

3. Cameron sees a Math 51 textbook offered for 30% off retail price. If the price after the 30% discount is \$85, what was the initial price?

initial price - discount = final price

discount = 30% of initial price

$$x - 0.3x = 85$$

$$\frac{0.7x}{0.7} = \frac{85}{0.7}$$

$$x \approx 121.43$$

The initial price was \$121.43.

Q: What are the next two letters in this sequence: A E F H I K L M ?