Topic: Percent markup

Question: If a bicycle store purchases a bike from the manufacturer for \$100, and they mark it up 3%, how much are they selling the bike for?

Answer choices:

A \$3

B \$110

C \$103

D \$105



Solution: C

First, we'll find the amount of money by which the store marked up the price of the bike. We'll multiply 3% by the manufacturer's price, which is the price the store paid to the manufacturer.

$$\frac{3}{100} \cdot \$100$$

\$3

They marked it up by \$3, so we'll add that to the purchase price to find the selling price.



Topic: Percent markup

Question: If a furniture store purchases a sofa from the manufacturer, marks it up by $62\,\%$, and sells the item for \$1,296.00, how much did the store pay the manufacturer for the sofa?

Answer choices:

A \$800.00

B \$900.00

C \$1,000.00

D \$1,100.00

Solution: A

If the store paid x for the sofa and marked it up by 62%, then the price they're selling it for is 1.62 times the price they paid for it.

$$1.62x = $1,296.00$$

$$\frac{1.62x}{1.62} = \frac{\$1,296.00}{1.62}$$

$$x = $800.00$$

The store paid the manufacturer \$800.00 for the sofa, marked it up by $62\,\%$ or \$496.00, and then sold the item to the customer for \$1,296.00.



Topic: Percent markup

Question: If we mark up a jacket by $40\,\%$ and then sell it for \$63, how much was the markup?

Answer choices:

A \$70

B \$40

C \$18

D \$30



Solution: C

If we say that we purchased the jacket for x dollars, then the price after a $40\,\%$ markup is applied can be expressed as

This amount has to be equal to the amount we sold it for after the markup, which means

$$1.4x = $63$$

$$x = \frac{$63}{1.4}$$

$$x = $45$$

If we originally paid \$45 for the jacket, and then sold it for \$63, the amount of the markup was

