

7-6 Mark-Ups and Discounts

Ex. 1 Athletic shoes that regularly sell for \$85.99 are 20% off. Find the new price of the shoes.

What is 20% of 85.99?

$$x = .20 \cdot 85.99$$

17.198
\$17.20

\$68.79

Compact discs that cost \$10.99 are on sale for 30% off. Find the new price of the compact discs.

$$10.99 \cdot .30 = 3.29$$

\$7.70

Ex. 2 A Brewers ticket costs \$45. If the sales tax is 6.25%, what is the total cost of the ticket?

$$45 \cdot 0.0625$$

$$\begin{array}{r} \$ 2.81 \\ 45 \end{array}$$

$$\boxed{\$ 47.81}$$

A pair of shoes costs \$89.95 plus 5% sales tax. What is the total cost of the shoes?

$$89.95 \cdot .05$$

$$\begin{array}{r} \$ 4.50 \\ 89.95 \end{array}$$

$$\boxed{\$ 94.45}$$

Ex. 3 A computer store pays \$16 for a DVD player. The percent of the markup is 375%. Find the DVD player's selling price.

$$3.75 \cdot 16 = \$ 60$$

$$\boxed{\$ 76}$$

It costs \$227 to manufacture an iPad. Apple sells them with a 120% markup. What is the selling price of an iPad?

$$1.20 \cdot 227 = 272.40$$

$$\boxed{\$ 499.40}$$

Ex. 4 A shirt is 20% off at Dick's Sporting Goods Store. If the original price is \$19.99 and tax is 5.5% what will be the final price?

$$\begin{array}{r}
 19.99 \cdot .20 \\
 3.99 \\
 19.99 - 3.99 \\
 \$16 : .055 = 0.88 + 16 \\
 \boxed{\$16.88}
 \end{array}$$

Ex. 5 A department store is having a 10% discount on everything in the store. A bicycle helmet that costs \$96 is on sale with an additional 10% off the already discounted price. Find the sale price of the helmet after two discounts.

$$\begin{array}{r}
 .10 \cdot 96 = 9.60 \\
 96 - 9.60 = 86.40 \\
 .10 \cdot 86.40 = 8.64 \\
 86.40 - 8.64 = \$77.76
 \end{array}$$

Ex. 6

You buy dinner at a restaurant for \$34.50. How much money should you leave for a tip?

$$.15 \cdot 34.50$$

$$10\% \rightarrow \$3.50$$
$$20\% \rightarrow \$7.00$$

Homework

p.367 #21-27 all