

8.3 Percent of a Number

Example 1: Calculating the Percent of a Number

Determine the percent of each number.

a) 160% of \$53.27

Method 1: Use a proportion

$$\frac{160}{100} = \frac{\boxed{}}{53.27}$$

$$\frac{160(53.27)}{100} = \boxed{\$85.23}$$

Method 2: Use decimal version of the %

decimal form $\times$ value

$$1.6(53.27)$$

$$= \boxed{\$85.23}$$

b) $\frac{3}{4}\%$ of 135

0.75%

Method 1: Use a proportion

$$\frac{0.75}{100} = \frac{\boxed{}}{135}$$

$$\frac{0.75(135)}{100} = \boxed{1.0125}$$

Method 2: Use decimal version of the %

$$0.0075(135)$$

$$= \boxed{1.0125}$$

c) $55\frac{4}{5}\%$ of 500

55.8%

Method 1: Use a proportion

$$\frac{55.8}{100} = \frac{\boxed{}}{500}$$

$$\frac{55.8(500)}{100} = \boxed{279}$$

Method 2: Use decimal version of the %

$$0.558(500)$$

$$= \boxed{279}$$

John buys a PS4 regularly priced at \$399.99 for 15% off. What is the sale price?

① 15% of 399.99

$$0.15(399.99)$$

$$= 59.9985$$

$$\uparrow$$

$$= \$60.00$$

$$\begin{array}{r} 399.99 \\ - 60.00 \\ \hline \end{array}$$

$$\boxed{\$339.99}$$

OR ② 15% off = 85% remaining

$$0.85(399.99)$$

$$= \boxed{\$339.99}$$