

Name: _____

Date: _____

Learning Goal 3.2

I can calculate the percent of a number and combine percentages.

Example Use mental math to determine the percentages of the following numbers.

(Hint: change the percent to a decimal first!)

a. 150% of \$5

b. 0.1% of \$100

c. $1\frac{1}{2}\%$ of \$20 000

d. 15% of 480

Example Find the requested value.

a. What is 10% of 300?

b. What percent of 64 is 16?

c. 15 is 30% of what number?

d. What is 0.8% of 280.6?

e. What percent of 64 is 256?

f. 9 is $\frac{2}{3}\%$ of what number?

Example Calculate the following.

- a. A survey showed that $\frac{1}{4}\%$ of 800 students use inline skates to get to school. How many of the 800 students in a school use inline skates to get to school?

- b. $30\frac{3}{4}\%$ of 400 students surveyed said they owned a cell phone. How many of the students own a cell phone?

- c. Adele invested \$40.12 in a savings plan at the beginning of the year. By the end of the year her investment was worth 120% of its original value. How much was her investment worth, to the nearest cent?

- d. Sport market is having a sale. Everything in the store is 40% off. Justin buys a snowboard regularly priced at \$650. How much was the sale price?

- e. Patricia purchased the brand new PS5 for \$660. If the GST is 5% and the PST is 7%, how much tax did she pay altogether?