

4.3

Percent of a Number*MathLinks 8, pages 138–143***Key Ideas Review**

1. Label each example with the mental math strategy it represents: halving, doubling, or dividing by ten. Then, complete the calculation.
 - a) 1% of \$66
 $10\% \text{ of } \$66 = \6.60
So, 1% of 66 = \$ _____
 - b) 5% of 180
 $10\% \text{ of } 180 = 18$
So, 5% of 180 = _____
 - c) 20% of \$3.20
 $10\% \text{ of } \$3.20 = \0.32
So, 20% of \$3.20 = \$ _____
2. Circle the terms that correctly complete this statement.
To calculate the percent of a number, write the percent as a (decimal/fraction), and then (divide/multiply) by the number.

Practise and Apply

3. Use mental math to determine each of the following. Show your thinking.
 - a) 200% of 4500
 - b) 0.1% of 600
 - c) $1\frac{1}{4}\%$ of 80
 - d) 30% of 70
 - e) $\frac{4}{5}\%$ of 15
 - f) 450% of 300

Name: _____

Date: _____

4. What is the percent of each number? Give your answer to the nearest hundredth.

a) $\frac{1}{5}\%$ of 630

b) $23\frac{7}{8}\%$ of 300

c) 245% of \$356.80

d) $68\frac{3}{4}\%$ of 730

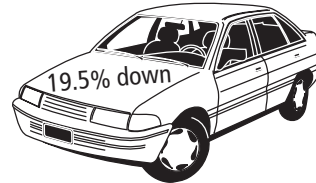
e) 360% of \$129.95

5. The commission for the sale of a house was $6\frac{3}{4}\%$. If the house sold for \$345 000, how much was the commission? Show your thinking.

6. Table salt is a chemical compound of sodium and chlorine. Recommended daily intake is about 1700 mg. If Canadians consume 182% of this amount on average, how much sodium is one person eating daily?

7. Estimate the following answers, then calculate. Show your thinking.

- a) Miguel bought a car for \$4700. He made a down payment of $19\frac{1}{2}\%$. How much was the down payment?



- b) About 5.6% of Canadians have Type 2 diabetes. If Canada's population is 32 million, about how many Canadians have this condition?

- c) The 4900-seat hockey arena was 63% full. How many people were at the game?

8. The Nile River is about 209% the length of the Yukon River. If the Yukon River is 3168 km, how long is the Nile River (to the nearest km)? Show your work.

