What Should I Be Able to Do?

- 3.1 **1.** Write each fraction as a decimal. Identify each decimal as terminating or repeating.
 - a) $\frac{3}{5}$
- b) $\frac{5}{6}$
- c) $\frac{3}{8}$
- d) $\frac{3}{20}$
- **2.** Write each decimal as a fraction or a mixed number in simplest form.
 - a) 0.55
- **b**) 1.3
- **c)** 0.8
- d) 0.07
- 3.2 3. a) Use any method. Order these numbers from least to greatest. Explain the method you used. $\frac{5}{4}$, $1\frac{1}{16}$, $\frac{3}{6}$, 1.1, $\frac{5}{8}$
 - b) Use a different method to order the numbers, to verify your answer in part a.
 - **4.** In each ordered set, identify the number that has been placed incorrectly. Explain how you know.
 - a) $2\frac{1}{3}$, 2.25, $\frac{17}{6}$, $2\frac{11}{12}$
 - **b)** $\frac{3}{5}$, $\frac{9}{10}$, $\frac{21}{20}$, $1\frac{3}{15}$, 1.1
- **5.** Two decimals have a sum of 3.41. What might the decimals be? Find as many answers as you can.
 - **6.** Asafa Powell of Jamaica holds the men's world record for the 100-m sprint, with a time of 9.77 s. Florence Griffith Joyner of the United States holds the women's world record, with a time of 10.49 s. What is the difference in their times?

- **7.** Kiah works at the library after school. She earns \$7.65/h. She usually works 15.5 h a week.
 - a) What does Kiah earn in a week? Use estimation to check your answer.
 - b) One week Kiah only works one-half the hours she usually works. What are her earnings that week?



- 8. Lok needs 1.2 m of fabric to make a tote bag. He finds two fabrics he likes. One fabric costs \$7.59/m and the other fabric costs \$6.29/m. How much money will Lok save if he buys the less expensive fabric?
- 3.5 **9.** Estimate.



- Which quotients are:
- i) greater than 100?
- ii) less than 50?

Calculate the quotients that are less than 50.

- a) 259.8 ÷ 1.65
- **b)** 35.2 ÷ 0.2
- c) 175.08 ÷ 0.8
- **d)** 93.8 ÷ 22.4
- e) 162.24 ÷ 31.2
- **f)** 883.3 ÷ 36.5

LESSON

- **10.** The area of a rectangle is 3.75 m². Its length is 0.6 m. What is the width of the rectangle?
- 3.6 **11.** Evaluate.

Use the order of operations.

- a) $8.11 + 6.75 \times 5.6 2.12$
- **b)** $3.78 \times 2.25 4.028 \div 1.52$
- 12. a) Simplify.

i)
$$1.2 + 2.8 \times 2.1 + 3.6$$

ii)
$$1.2 \times 2.8 + 2.1 \times 3.6$$

iii)
$$1.2 \times (2.8 + 2.1) + 3.6$$

iv)
$$1.2 + 2.8 + 2.1 \times 3.6$$

- b) All the expressions in part a have the same numbers and operations.Why are the answers different?
- 3.7 **13.** Write each percent as a fraction and as a decimal.

Sketch number lines to illustrate.

- a) 80%
- **b)** 12%
- c) 2%
- d) 63%



14. Write each fraction as a decimal and as a percent.

Sketch number lines to illustrate.

- a) $\frac{14}{25}$
- **b)** $\frac{19}{20}$
- c) $\frac{7}{50}$
- **d)** $\frac{1}{5}$

- 3.8 **15.** There are 35 students in a Grade 7 class. On one day, 20% of the students were at a sports meet. How many students were in class?
 - **16.** Find the sale price before taxes of each item.

a) video game: 15% off \$39

b) lacrosse stick: 25% off \$29

c) fishing rod: 30% off \$45

- **17.** A souvenir Olympic hat sells for \$29.99.
 - a) Russell lives in Newfoundland where there is a sales tax of 14%.
 Calculate the final cost of the hat in Newfoundland.
 - b) Jenna lives in Alberta where the GST tax is 6%.Calculate the final cost of the hat in Alberta.
 - c) What is the difference between the final costs of the hat in Newfoundland and Alberta?
- 18. Madeleine received good service in a restaurant. She left the waitress a tip of 20%. Madeleine's bill was \$32.75. How much tip did the waitress receive? Show your work. Draw a number line to illustrate your answer.