Mid-Unit Review

LESSON

Use a calculator when you need to.

3.1 **1.** **a)** Write each fraction as a decimal.
i) $\frac{1}{33}$ **ii)** $\frac{2}{33}$ **iii)** $\frac{3}{33}$
b) Describe the pattern in your answers to part a.
c) Use your pattern to predict the fraction form of each decimal.
i) $0.\overline{15}$ **ii)** $0.\overline{36}$

2. Write each fraction as a decimal. Identify the decimals as repeating or terminating.
a) $\frac{1}{8}$ **b)** $\frac{3}{5}$
c) $\frac{2}{3}$ **d)** $\frac{7}{13}$

3. Write each decimal as a fraction.
a) 0.2 **b)** $0.\overline{8}$
c) 0.005 **d)** $0.\overline{23}$

3.2 **4.** Order each set of numbers from least to greatest. Use a different method for each part.
a) $2\frac{1}{4}, \frac{11}{6}, \frac{8}{3}, 2$ **b)** $3.5, \frac{23}{8}, 1\frac{3}{4}$
c) $1.75, \frac{13}{10}, \frac{9}{5}, 1\frac{3}{5}, 1$

5. Find a number between each pair of numbers. Which strategy did you use each time?
a) $\frac{4}{3}, \frac{5}{3}$ **b)** $2\frac{3}{8}, \frac{5}{2}$ **c)** $1.4, \frac{8}{5}$

3.3 **6.** Use front-end estimation to place the decimal point in each answer.
a) $32.47 - 6.75 = 2\ 5\ 7\ 2$
b) $118.234 + 19.287 = 1\ 3\ 7\ 5\ 2\ 1$
c) $17.9 - 0.8 = 1\ 7\ 1$

7. Winsome is being trained as a guide dog for a blind person.
At birth, she had a mass of 0.475 kg.
At 6 weeks, her mass was 4.06 kg.
From 6 weeks to 12 weeks, she gained 5.19 kg.
a) By how much did Winsome's mass change from birth to 6 weeks?
b) What was her mass at 12 weeks?

3.4 **8.** Estimate to place the decimal point in each product.
Show your estimation strategy.
a) $9.3 \times 0.8 = 7\ 4\ 4$
b) $3.62 \times 1.3 = 4\ 7\ 0\ 6$
c) $11.25 \times 5.24 = 5\ 8\ 9\ 5$

9. A rectangular park has dimensions 2.84 km by 3.5 km.
What is the area of the park?

3.5 **10.** When you divide 15.4 by 2, the quotient is 7.7.
When you divide 1.54 by 0.2, the quotient is 7.7.
Explain why the quotients are the same.

3.6 **11.** Evaluate.
a) $5.9 + 3.7 \times 2.8$
b) $12.625 \times (1.873 + 2.127)$
c) $2.1 \div 0.75 + 6.38 \times 2.45$