Mid-Chapter Review

Frequently Asked Questions

- Q: How can you estimate sums and differences with decimals?
- A1: You can use the whole-number parts.

For example, to estimate 15.076 + 10.387, use 15 + 10 = 25. So, the sum is just over 25.

A2: If the decimals are close to 1 or less than 1, you can use the tenths.

For example, estimate 1 - 0.569 as 1 - 0.6 = 0.4. So, the difference is close to 0.4.

- Q: How can you add decimals?
- A1: You can use easier numbers and mental math.

For example, calculate 1.999 + 2.857.

- 1 1 1 3 .4 8 6 + 2 .8 7 9 6 .3 6 5
- **A2:** You can add the digits that represent the same place values and regroup when necessary.
- A3: You can rename the numbers, if necessary, so that they have the same number of decimal places. Then you can calculate as though the numbers are whole numbers.

For example,

The sum must be 5.878 because 4.888 + 0.99 is about 4.888 + 1 = 5.888.

Practice

Lesson 1

- 1. In one season, Mount Revelstoke and Glacier National Parks had 606 159 visitors. Pacific Rim National Park Reserve had 768 621 visitors.
 - a) About how many more visitors went to Pacific Rim Reserve than to Mount Revelstoke and Glacier National Parks?
 - b) How do you know that more than one million people visited these national parks?

Lesson 2

Kirsten's Explanation

I estimate that the

park is about 8 km.

perimeter of the

About 2 km of

over.

fencing was left

2. How can you improve Kirsten's explanation of this problem?

10 km of fencing was used to go around this park. About how much fencing was left over?

2.759 km

1.237 km



- **3.** How can you estimate the difference between 0.487 and 2?
- 4. Is each statement true or false? Explain.
 - a) 0.199 + 0.29 > 0.5
- **b)** 2 1.567 < 0.5

Lesson 4

- 5. Solve each problem using mental math. Explain what you did.
 - a) It costs \$4.95 to rent a DVD. What is the cost to rent two DVDs?
 - b) What is the total mass of 2.999 kg and 1.999 kg of cheese?

Lesson 5

- 6. Calculate. Explain how you know each sum is reasonable.
 - a) 6.777 + 1.887
- **b)** 0.765 + 0.238
- 7. Estimate to place the decimal point in each sum.
 - a) 7.66 + 2.39 = 1005
- **b)** 1.486 + 0.196 = 1682

NFI