Math Journal

Grade 4 Module 1

Application problems

**4th grade Module1 Lesson 1**

Ben has a rectangular area 9 meters long and 6 meters wide. He wants a fence that will go around it as well as grass sod to cover it. How many meters of fence will he need? How many square meters of grass sod will he need to cover the entire area?

4th grade Module1 Lesson 2

Amy is baking muffins. Each baking tray can hold 6 muffins.

a. If Amy bakes 4 trays of muffins, how many muffins will she have all together?

b. The corner bakery has made 10 times as many muffins as Amy baked. How many muffins did the bakery produce?

Bonus: If the corner bakery packages the muffins in boxes of 100, how many boxes of 100 could they make?

4th grade Module1 Lesson 3

The school library has 10,600 books. The town library has 10 times as many books. How many books does the town library have?

4th grade Module1 Lesson 4

There are about forty-one thousand Asian elephants and about four hundred seventy thousand African elephants left in the world.

About how many Asian and African elephants are left in total?

4th grade Module1 Lesson 5

Draw and label the units on the place value chart. Use each of the following digits (9, 8, 7, 3, 1, 0) once to create a number that is between 7 hundred thousand and 9 hundred thousand. Write the number you created in word form.

Bonus: Create 2 more numbers following the same directions as above.

4th grade Module1 Lesson 6

Use the digits 5, 6, 8, 2, 4, and 1 to create two six-digit numbers. Be sure to use each of the digits within both numbers. Express the numbers in word form and use a comparison sign to show their relationship.

4th grade Module1 Lesson 7

On Tuesday, according to her pedometer, Sarah took 42,619 steps. On Wednesday, Sarah took ten thousand more steps than she did on Tuesday. On Thursday, Sarah took one thousand fewer steps than she did on Wednesday. How many steps did Sarah take on Thursday?

4th grade Module1 Lesson 8

Jose’s parents bought a used car, a new motorcycle, and a used snowmobile. The car cost $8,999. The motorcycle cost $9,690. The snowmobile cost $4,419. About how much money did they spend on the three items?

4th grade Module1 Lesson 9

34,123 people attended a basketball game. 28,310 people attended a football game. About how many more people attended the basketball game than the football game? Round to the nearest ten thousands to find the answer. Does your answer make sense? What might be a better way to compare attendance?

4th grade Module1 Lesson 10

The post office sold 204,789 stamps last week and 93,061 stamps this week. About how many more stamps did the post office sell last week than this week? Explain how you got your answer.

4th grade Module1 Lesson 11

Meredith kept track of the calories she consumed for 3 weeks. The first week, she consumed 12,490 calories, the second week 14,295 calories, and the third week 11,116 calories. About how many calories did Meredith consume altogether? Which of these estimates will produce a more accurate answer: rounding to the nearest thousand or rounding to the nearest ten thousand?

4th grade Module1 Lesson 12

The basketball team raised a total of $154,694 in September and $29,987 more in October than in September. How much money did they raise in October? Draw a tape diagram and write your answer in a complete sentence.

4th grade Module1 Lesson 13

Jennifer texted 5,849 times in January. In February, she texted 1,263 more times than she did in January. What was the total number of texts that Jennifer sent in the two months combined? Explain how you would check the reasonableness of your answer.

4th grade Module1 Lesson 14

In one year, the animal shelter bought 25,460 pounds of dog food. That amount was 10 times the amount of cat food purchased in the month of July. How much cat food was purchased in July?

Bonus: If the cats ate 1,462 pounds of the cat food, how much cat food was left?

4th grade Module1 Lesson 15

When the amusement park opened, the number on the counter at the gate read 928,614. At the end of the day, the counter read 931,682. How many people went through the gate that day?

4th grade Module1 Lesson 16

For the weekend basketball playoffs, a total of 61,941 tickets were sold. 29,855 tickets were sold for Saturday’s games. The rest of the tickets were sold for Sunday’s games. How many tickets were sold for Sunday’s games?

4th grade Module1 Lesson 17

A bakery used 12,674 kg of flour. Of that, 1,802 kg was whole wheat and 888 kg was rice flour. The rest was all-purpose flour. How much all-purpose flour did they use? Solve and check the reasonableness of your answer.

4th grade Module1 Lesson 18

In all, 30,436 people went skiing in February and January. 16,009 went skiing in February. How many fewer people went skiing in February than in February?

4th grade Module1 Lesson 19

For Jordan to get to his grandparents’ house, he has to travel through Albany and Plattsburgh. From Jordan’s house to Albany is 189 miles. From Albany to Plattsburgh is 161 miles. If the total distance of the trip is 508 miles, how far from Plattsburgh do Jordan’s grandparents live?