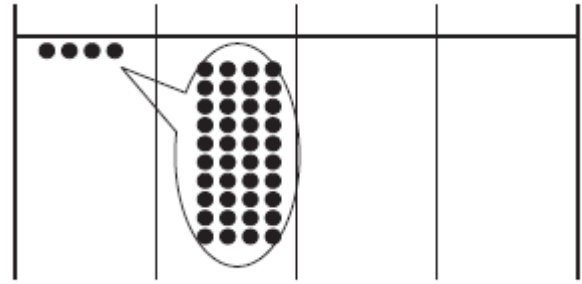


1. Use the number disks in the place value chart below to complete the following problems.



a. Label the place value chart.

b. Tell about the movement of the disks in the place value chart by filling in the blanks to make the following equation true and match what is happening in the place value chart.

_____ × 10 = _____ = _____

c. Write a statement about this place value chart using the words “10 times as many.”

1. Fill in the blank to complete the number sentence. Respond with a numeral.

a. (4 ten thousands 6 hundreds) × 10 = _____

b. (8 thousands 2 tens) ÷ 10 = _____

2. The Carson family saved up \$39,580 for a new home. The cost of their dream home is 10 times as much as they have saved. How much does their dream home cost?

1. In the spaces provided, rewrite the following units as digits. Be sure to place commas where appropriate.

a. 9 thousands, 3 hundreds, 4 ones _____

b. 6 ten thousands, 2 thousands, 7 hundreds, 8 tens, 9 ones _____

c. 1 hundred thousand, 8 thousands, 9 hundreds, 5 tens, 3 ones _____

2. Use the place value chart to write 26 thousands and 13 hundreds using digits.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones

How many thousands are in your answer? _____

1. Use the place value chart below to complete the following:

--	--	--	--	--	--	--

a. Label the units on the chart.

b. Write the number $800,000 + 6,000 + 300 + 2$ in the place value chart.

c. Write the number in word form.

2. Write one hundred sixty thousand, five hundred eighty-two in expanded form.

1. Four friends were playing a game. Use the information in the table below to order the number of points each player earned from least to greatest. Then name the person who won the game.

2. Use each of the digits 5, 4, 3, 2, 1 exactly once to create two different five-digit numbers.
 - a. Write each number on the line and compare the two numbers by using the symbols $<$ or $>$. Write the correct symbol in the circle.



- b. Use words to write a comparison statement for the problem above.

1. Fill in the empty boxes to complete the pattern.

468,235			471,235	472,235	
---------	--	--	---------	---------	--

- a. Explain in pictures, numbers, and words how you found your answer.

2. Complete the following equations.

a. $1,000 + 56,879 =$ _____ b. $324,560 - 100,000 =$ _____

c. $456,080 - 10,000 =$ _____ d. $10,000 + 786,233 =$ _____

3. The population of Rochester, NY in the 1990 census was 219,782. The 2000 census found that the population decreased by about 10,000. About how many people lived in Rochester in 2000? Explain in pictures, numbers, and words how you found your answer.

1. Round to the nearest thousand. Use the number line to model your thinking.



a. $7,621 \approx$ _____



b. $12,502 \approx$ _____



c. $324,087 \approx$ _____

2. It takes 39,090 gallons of water to manufacture a new car. Sammy thinks that rounds up to about 40,000 gallons. Susie thinks it is about 39,000 gallons. Who rounded to the nearest thousand, Sammy or Susie? Use pictures numbers and words to explain.

1. Round to the nearest ten thousand. Use the number line to model your thinking.



a. $35,124 \approx$ _____



b. $981,657 \approx$ _____

2. Round to the nearest hundred thousand. Use the number line to model your thinking.



3. Estimate the sum by rounding each number to the nearest hundred thousand.

$257,098 + 548,765 \approx$ _____

a. $89,678 \approx$ _____



b. $999,765 \approx$ _____

1. Round 765,903 to the given place value:
- Thousand _____
 - Ten thousand _____
 - Hundred thousand _____

2. There are 16,850 Star coffee shops around the world. Round the number of shops to the nearest thousand and ten thousand. Which answer is more accurate? Explain your thinking using pictures, numbers and words.

1. There are 598,500 Apple employees in the United States.

a. Round the number of employees to the given place value:

- Thousand _____
- Ten thousand _____
- Hundred thousand _____

b. Explain why two of your answers are the same.

2. A company developed a student survey so that students could share their thoughts about school. In 2011, 78,234 students across the United States were administered the survey. In 2012, the company planned to administer the survey to 10 times as many students from 2011. About how many surveys should the company have printed in 2012? Explain how you found your answer.

1. Find the sums of the following:

a.
$$\begin{array}{r} 23,607 \\ + 2,307 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 3,948 \\ + 278 \\ \hline \end{array}$$

c. $5,983 + 2,097$

2. The office supply closet had 25,473 large paperclips, 13,648 medium paperclips, and 15,306 small paperclips. How many paperclips were in the closet?

Directions: Model the problem with a tape diagram. Solve and write your answer as a statement.

1. In January, Scott earned \$8,999. In February, he earned \$2,387 more than he did in January. In March, Scott earned the same amount as he did in February. How much did Scott earn altogether during those three months? Is your answer reasonable? Explain.

1. a.
$$\begin{array}{r} 8,512 \\ -2,501 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 18,042 \\ -4,122 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 8,052 \\ -1,561 \\ \hline \end{array}$$

2. Draw a tape diagram to represent the following problem. Use numbers to solve and write your answer as a statement.

a. What number must be added to 1,575 to result in a sum of 8,625?

Directions: Use the standard algorithm to solve the following subtraction problems.

1.
$$\begin{array}{r} 19,350 \\ -5,761 \\ \hline \end{array}$$

2. $32,010 - 2,546$

Directions: Draw a tape diagram to represent the following problem. Use numbers to solve and write your answer as a statement. Check your answer.

3. A doughnut shop sold 1,232 doughnuts in one day. If they sold 876 doughnuts in the morning, how many doughnuts were sold during the rest of the day?

Directions: Draw a tape diagram to model each problem and solve.

1. $956,204 - 780,169 =$ _____

2. A construction company was building a stone wall on Main Street. 100,000 stones were delivered to the site. On Monday they used 15,631 stones. How many stones remain for the rest of the week? Write your answer as a statement.

Directions: Model each problem with a tape diagram.
Estimate and then solve each problem. Explain if your answer is reasonable.

1. Quarterback Brett Favre passed for 71,838 yards between the years 1991 and 2011. His all-time high was 4,413 passing yards in one year. In his second highest year, he threw 4,212 passing yards.
 - a. About how many passing yards did he throw in the remaining years? Estimate by rounding each value to the nearest thousand and then compute.
 - b. Exactly how many passing yards did he throw in the remaining years?
 - c. Assess the reasonableness of your answer in (b). Use your estimate from (a) to explain.

Directions: Estimate, then solve the following problem modeling with a tape diagram.

1. A mixture of 2 chemicals measures 1,034 ml. It contains some of Chemical A and 755 ml of Chemical B. How much less of Chemical A than Chemical B was in the mixture?

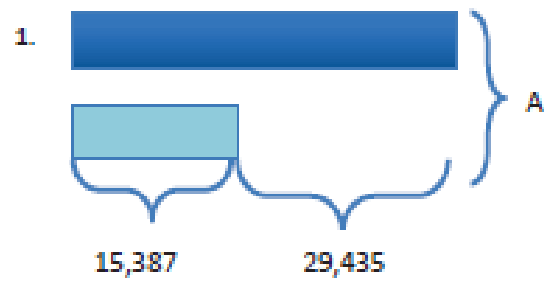
Directions: Draw a tape diagram to represent the problem. Use numbers and words to explain your thinking.

1. Park A covers an area of 4,926 square kilometers. It is 1,845 square kilometers larger than Park B. Park C is 4,006 square kilometers larger than the Park A.

a. What is the area of all three parks?

b. Assess the reasonableness of your answer.

Directions: Using the diagram below, create your own word problem and solve for the missing variable.



Directions: Using the equation below, draw a tape diagram and create your own word problem. Solve for the missing variable.

2. $248,798 = 113,205 + A + 99,937$