Name Key

1. Rewrite the following numbers including commas where appropriate:

   a. 4321 4,321

   b. 54321 54,321

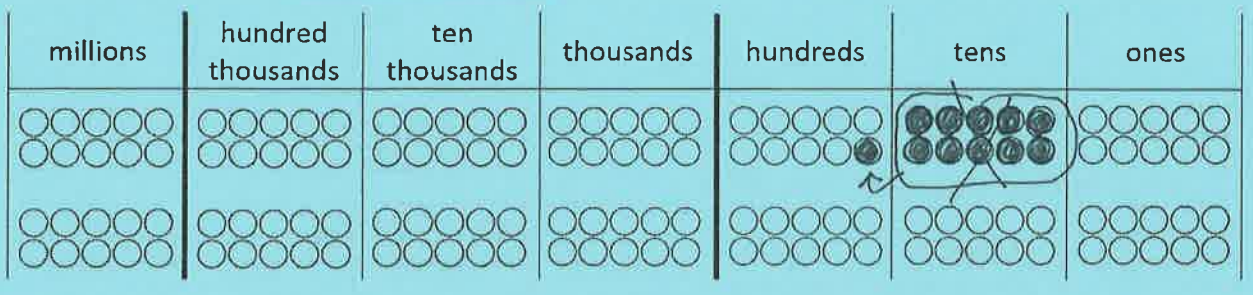
   c. 224466 224,466

   d. 2224466 2,224,466

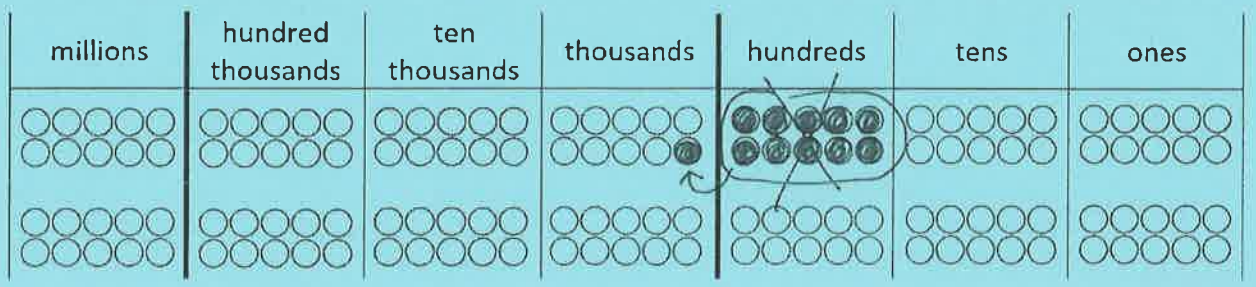
| millions , | hundred thousands | ten thousands | thousands , | hundreds | tens | ones |
|---|---|---|---|---|---|---|

2. Shade in disks on the place value chart to find the sum. Compose to the next unit if possible.

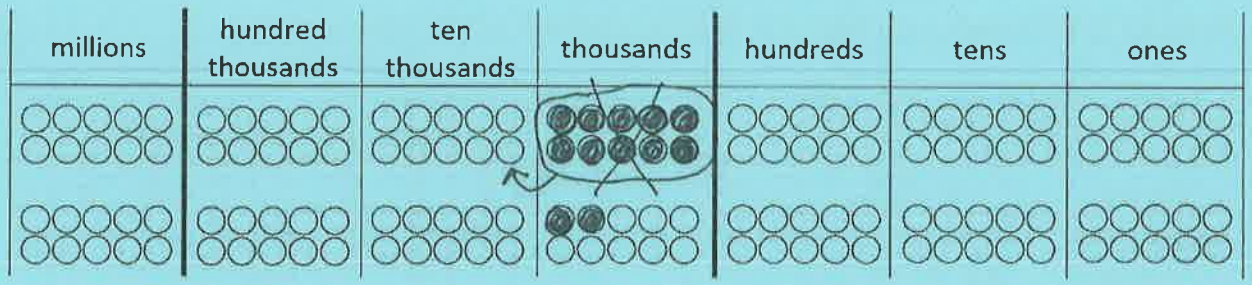
   a. 4 tens + 6 tens = 100



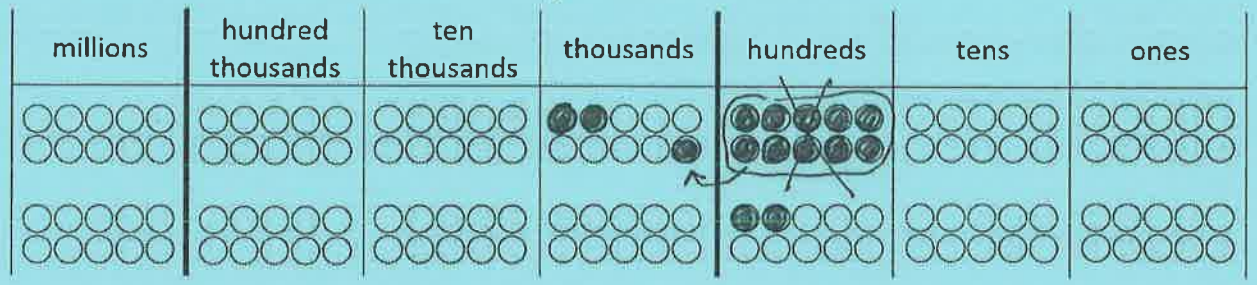

   b. 8 hundreds + 2 hundreds = 1,000



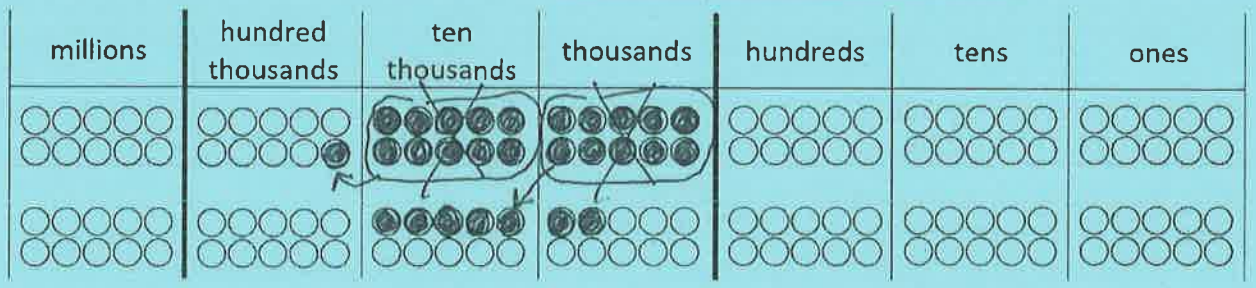
c. 5 thousands + 7 thousands = 12,000




d. 2 thousands + 12 hundreds = 3,200



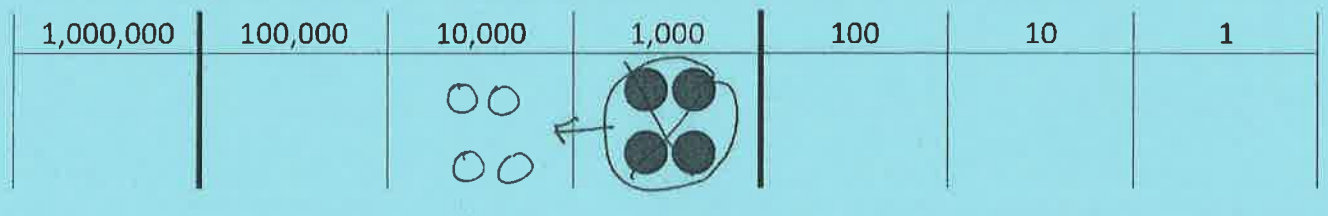

e. 14 ten thousands + 12 thousands = 152,000



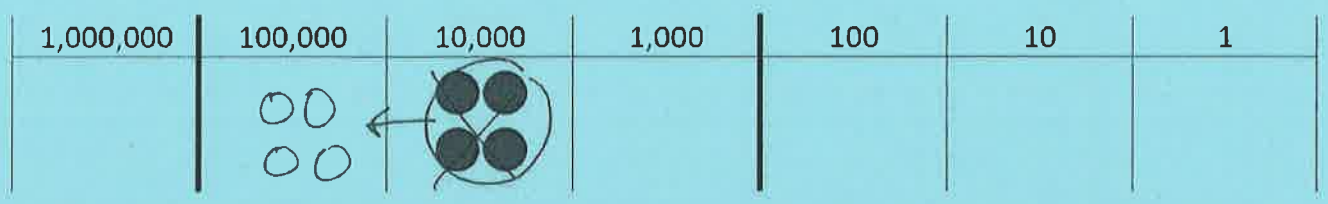
Name Key

1. Shift the disks on the place value chart to show the multiplication.

a. 10 × 4 thousands = 40,000




b. 10 × 4 ten thousands = 400,000




2. Write the first factor in the top row. Show the product in the bottom row.

a. (3 tens) x 10 = 300

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | | 3 | 0 |
| | | | | 3 | 0 | 0 |

b. (5 hundreds x 10) = 5,000

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | 5 | 0 | 0 |
| | | | 5 | 0 | 0 | 0 |

c. (2 tens 1 one) x 10 = 210

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | | 2 | 1 |
| | | | | 2 | 1 | 0 |

d. (5 hundreds 5 tens) x 10 = 5,500

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | 5 | 5 | 0 |
| | | | 5 | 5 | 0 | 0 |

3. Emily collected $950 selling Girl Scout cookies all day Saturday. Her twin cousins collected 10 times as much as she did. How much money did Emily's cousins collect?

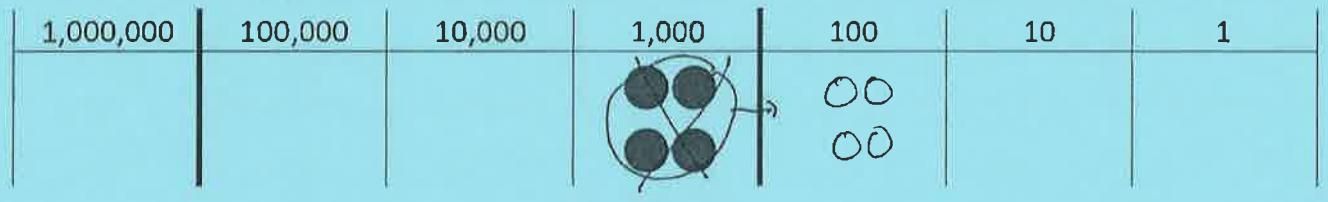
| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | 9 | 5 | 0 |
| | | | 9 | 5 | 0 | 0 |

Emily's cousins collected $9,500.

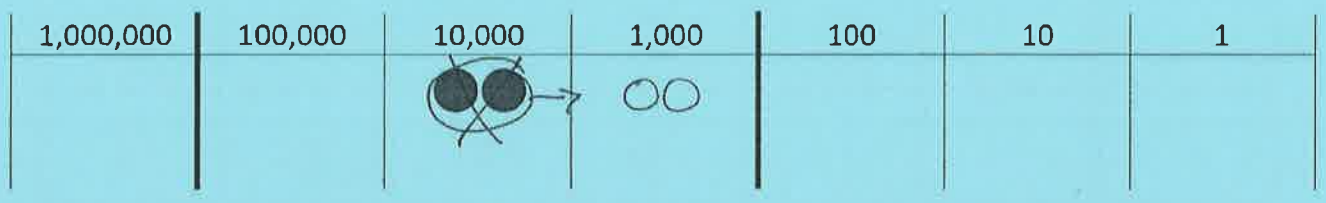
Name Key

1. Shift the disks on the place value chart to show the division.

a. 4 thousands ÷ 10 = 400

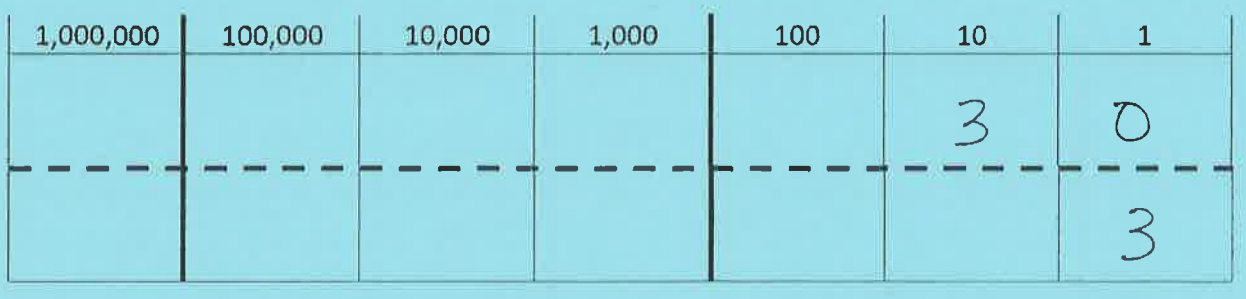



b. 2 ten thousands ÷ 10 = 2,000

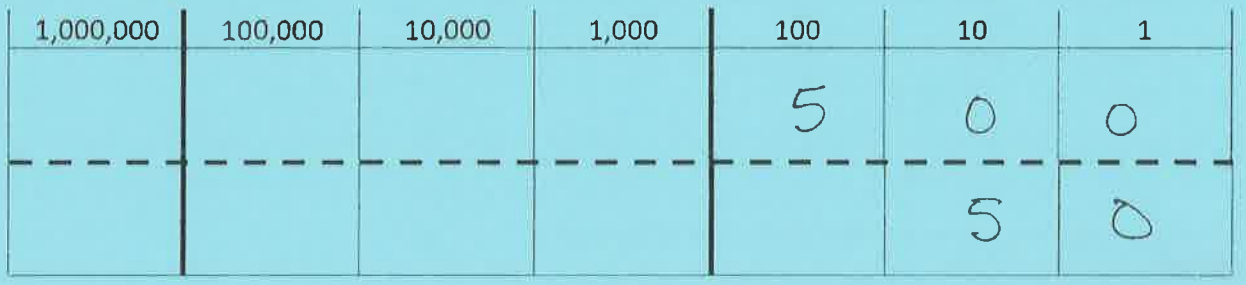



2. Write the dividend in the top row. Show the quotient in the bottom row.

a. (3 tens) ÷ 10 = 3




b. (5 hundreds ÷ 10) = 50



c. (2 hundreds 1 ten) ÷ 10 = 21

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | | 2 | 1 | 0 |
| | | | | | 2 | 1 |

d. (5 ten thousands 5 tens) ÷ 10 = 5,005

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | 5 | 0 | 0 | 5 | 0 |
| | | | 5 | 0 | 0 | 5 |

3. Alison's Conservation Club raised $9,500 to plant new trees in the city. If there are ten members in the club, and each person raised the same amount, how much did each person raise?

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | | 9 | 5 | 0 | 0 |
| | | | | 9 | 5 | 0 |

Each person raised $950.

Name Key Date _____

1. Write the number 50,679 on the place value chart.

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | | 5 | 0 | 6 | 7 | 9 |

Fill in the blanks to write the number in word form.

Fifty thousand, six hundred seventy-nine

2. Write the number 506,709 on the place value chart.

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | 5 | 0 | 6 | 7 | 0 | 9 |

Write the number in expanded form.

500,000 + 6,000 + 700 + 9

3. Complete the following chart:

| Number | Word Form | Expanded Form |
|---|---|---|
| 5,370 | five thousand, three hundred seventy | 5,000 + 300 + 70 |
| 50,372 | Fifty thousand, three hundred seventy-two | 50,000 + 300 + 70 + 2 |
| 39,701 | thirty-nine thousand, seven hundred one | 30,000 + 9,000 + 700 + 1 |
| 309,017 | Three hundred nine thousand, seventeen | 300,000 + 9,000 + 10 + 7 |
| 1,070,070 | One million, seventy thousand, seventy | 1,000,000 + 70,000 + 70 |

Name Key

1. Draw place value disks to represent each digit of the numbers. Use <, >, or = to compare the two numbers.

| > | < |
|---|---|
| Greater than | Less than |

a. 909,013 > 90,013

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | ○○○○○ ○○○○ | | ○○○○○ ○○○○ | | ○ | ○○○ |
| | | ○○○○○ ○○○○ | | | ○ | ○○○ |

b. 210,005 < 220,005

| 1,000,000 | 100,000 | 10,000 | 1,000 | 100 | 10 | 1 |
|---|---|---|---|---|---|---|
| | ○○ | ○ | | | | ○○○○○ |
| | ○○ | ○○ | | | | ○○○○○ |

2. Write each number on the place value chart.
   Compare the two numbers by using the symbols <, >, and =.

a. 501,107 (>) 89,171

| | | | | | |
|---|---|---|---|---|---|
| 5 | 0 | 1 | 1 | 0 | 7 |
| | 8 | 9 | 1 | 7 | 1 |

b. 300,000 + 50,000 + 1,000 + 800 (<) 605,908

| | | | | | |
|---|---|---|---|---|---|
| 3 | 5 | 1 | 8 | 0 | 0 |
| 6 | 0 | 5 | 9 | 0 | 8 |

c. 3 hundred 3 thousand, 8 hundred 4 (<) 303,840

| | | | | | |
|---|---|---|---|---|---|
| 3 | 0 | 3 | 8 | 0 | 4 |
| 3 | 0 | 3 | 8 | 4 | 0 |

3. Use the information in the chart below to number the height in feet of each skyscraper from shortest to tallest.

| Name of Skyscraper | Height of Skyscraper (ft.) | |
|---|---|---|
| Willis Tower | 1,450 ✓ | 1 |
| Freedom Tower | 1,776 | 4 |
| Taipei 101 | 1,670 ✓ | 3 |
| Petronas Towers | 1,483 ✓ | 2 |

4. Arrange from least to greatest: 7,550 ✓ 5,070 ✓ 750 ✓ 5,007 ✓ 7,505 ✓

750
5,007
5,070
7,505
7,550

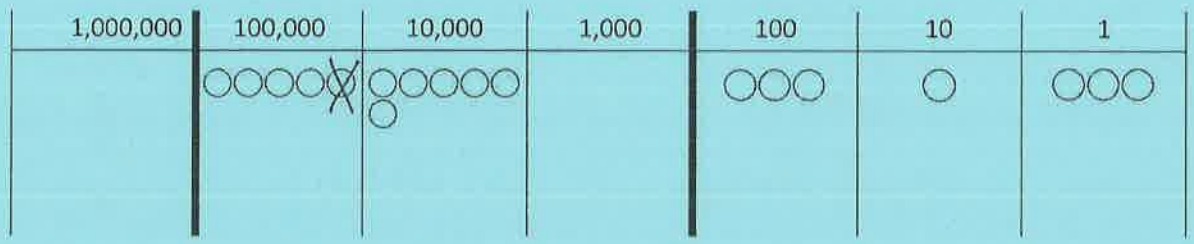
5. Arrange from greatest to least: 426,000 ✓ 406,200 ✓ 640,020 ✓ 46,600 ✓

640,020
426,000
406,200
46,600

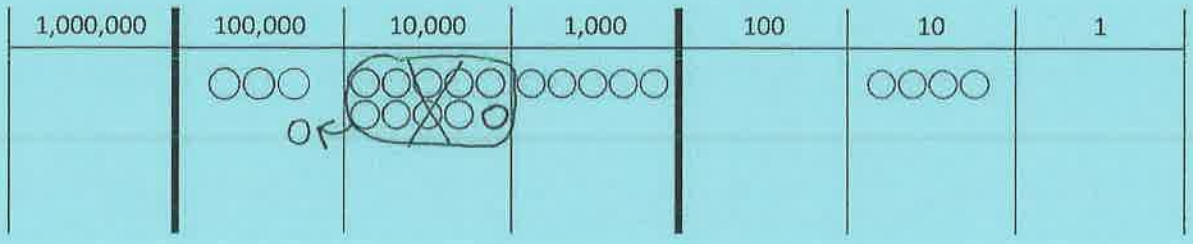
Name Key

1. Use number disks to find the sum or difference. Write the answer in standard form on the line.

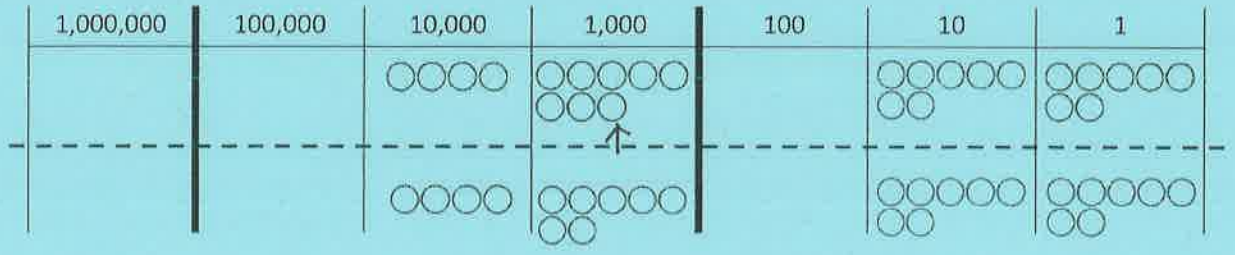
a. 100,000 less than 560,313 is 460,313.




b. 10,000 more than 395,040 is 405,040.




c. 48,077 is 1,000 more than 47,077.



2. Complete the following equations:

a. 10,000 + 76,960 = 86,960

b. 13,097 – 1,000 = 12,097

c. 49,000 – 10,000 = 39,000

d. 42,210 + 10,000 = 52,210

e. 72,090 = 71,090 + 1,000

f. 800,121 = 900,121 – 100,000

3. Fill in the empty boxes to complete the patterns.

| | | | | | |
|---|---|---|---|---|---|
| 45,555 | 46,555 | 47,555 | 48,555 | 49,555 | 50,555 |

| | | | | | |
|---|---|---|---|---|---|
| 754,000 | 764,000 | 774,000 | 784,000 | 794,000 | 804,000 |

| | | | | | |
|---|---|---|---|---|---|
| 125,000 | 225,000 | 325,000 | 425,000 | 525,000 | 625,000 |

Name Key

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

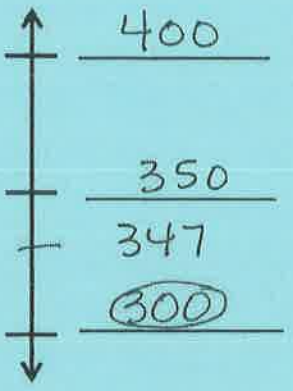
a. 347 ≈ 300

347 is between what hundreds?

300 and 400

What is the midpoint of these numbers?

350



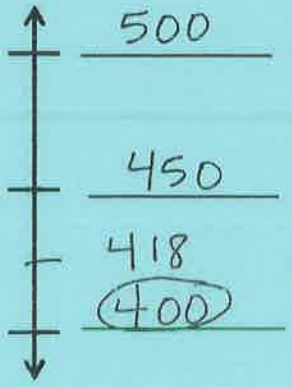

b. 418 ≈ 400

418 is between what hundreds?

400 and 500

What is the midpoint of these numbers?

450



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

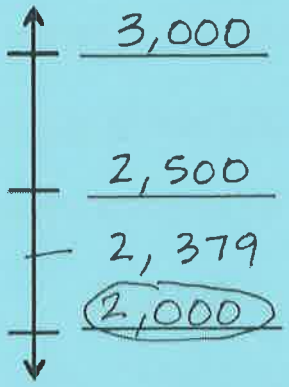
a. 2,379 ≈ 2,000

2,379 is between what thousands?

2,000 and 3,000

What is the midpoint of these numbers?

2,500



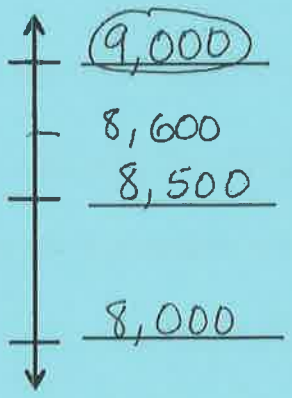

b. 8,600 ≈ 9,000

8,600 is between what thousands?

8,000 and 9,000

What is the midpoint of these numbers?

8,500



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

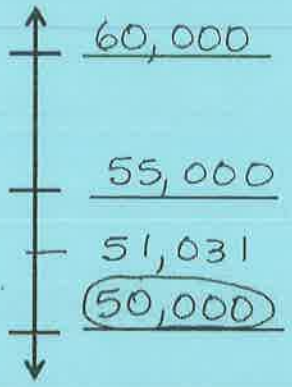
a. 51,031 ≈ 50,000

51,031 is between what ten thousands?

50,000 and 60,000

What is the midpoint of these numbers?

55,000



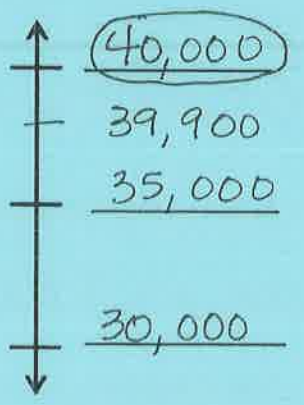

b. 39,900 ≈ 40,000

39,900 is between what ten thousands?

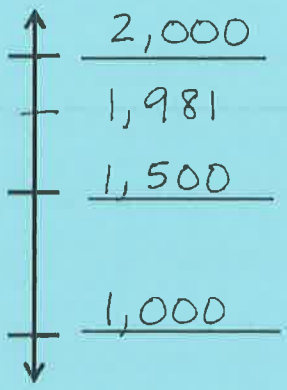
30,000 and 40,000

What is the midpoint of these numbers?

35,000

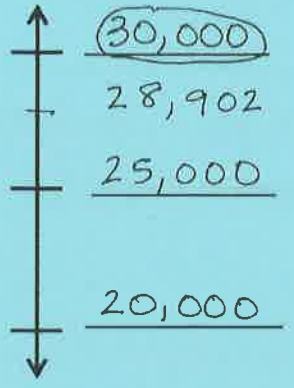


4. Steven and his friend were putting together a 5,000 piece puzzle. In one day, they put together 1,981 of the pieces. **About** how many pieces did they put together? Round to the nearest **thousand**.




They put together about 2,000 pieces.

5. Marsha's brother wanted help with the first question on his homework. The question asked the students to round 28,902 to the nearest **ten thousand.** Marsha's brother thought that the answer was 28,000. Was his answer correct?

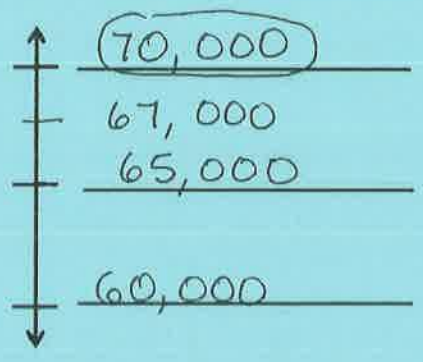



His answer is incorrect. He rounded to the nearest thousand. The correct answer is 30,000.

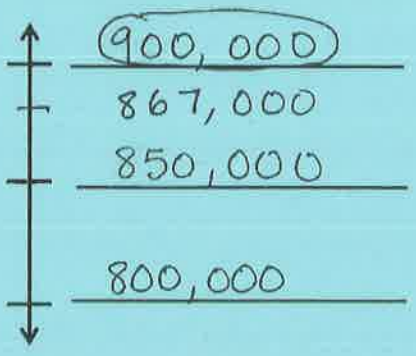
Name Key

Use the number lines to round each number to the given place value.

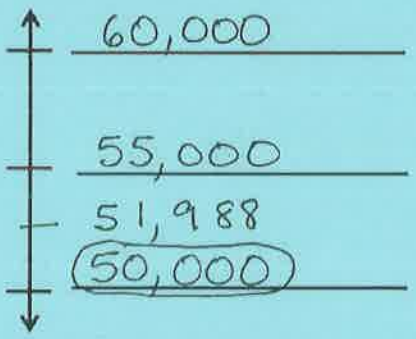
1a. 67,000 rounded to the nearest ten thousand is 70,000.



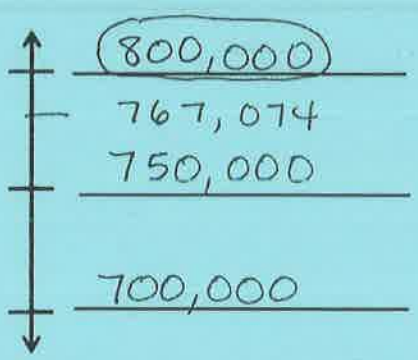

2a. 867,000 rounded to the nearest hundred thousand is 900,000.



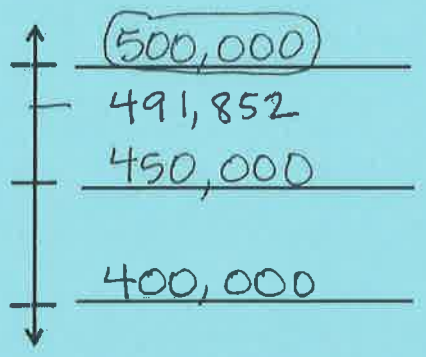

1b. 51,988 rounded to the nearest ten thousand is 50,000.




2b. 767,074 rounded to the nearest hundred thousand is 800,000.



3. 491,852 people went to the water park in the month of July. Round this number to the nearest hundred thousand to estimate how many people went to the park.




About 500,000 people went to the water park in July.

4. Estimate the sum by rounding each number to the given place value.

164,215 + 216,088

a. Round to the nearest ten thousands.

164,215 → 160,000 or 170,000 ?

216,088 → 210,000 or 220,000 ?

Estimated sum 380,000

b. Round to the nearest hundred thousands.

164,215 → 100,000 or 200,000 ?

216,088 → 200,000 or 300,000 ?

Estimated sum 400,000

Name Key

1. Round each number to the nearest **hundred**.

   a. 483 ≈ 500

   b. 606 ≈ 600

2. Round each number to the nearest **thousand**.

   a. 5,327 ≈ 5,000

   b. 3,754 ≈ 4,000

3. Round each number to the nearest **ten thousand**.

   a. 35,412 ≈ 40,000

   b. 23,497 ≈ 20,000

Name Key

1. Solve the addition problems below using the standard algorithm.

a.
$$\begin{array}{r} {\scriptstyle 1}\\ 909\\ +\ 144\\ \hline 1{,}053 \end{array}$$

b.
$$\begin{array}{r} 909\\ +\ 740\\ \hline 1{,}649 \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle 1}\\ 909\\ +\ 989\\ \hline 1{,}898 \end{array}$$

d.
$$\begin{array}{r} {\scriptstyle 1}\\ 205\\ +\ 845\\ \hline 1{,}050 \end{array}$$

e.
$$\begin{array}{r} {\scriptstyle 1}\\ 205\\ +\ 849\\ \hline 1{,}054 \end{array}$$

f.
$$\begin{array}{r} {\scriptstyle 1\ 1}\\ 205\\ +\ 897\\ \hline 1{,}102 \end{array}$$

g.
$$\begin{array}{r} {\scriptstyle 1}\\ 906\\ +\ 808\\ \hline 1{,}714 \end{array}$$

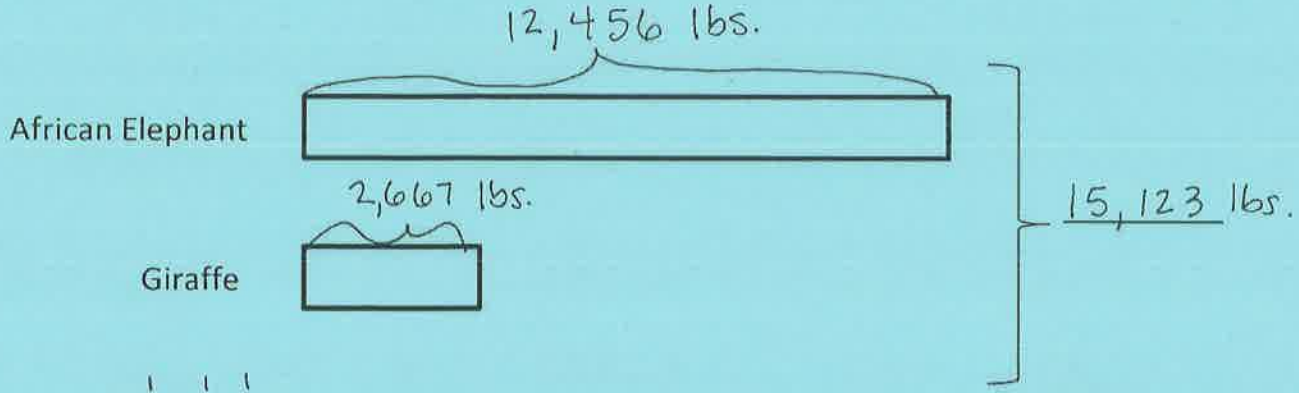
h.
$$\begin{array}{r} {\scriptstyle 1\ 1}\\ 999\\ +\ 849\\ \hline 1{,}848 \end{array}$$

i.
$$\begin{array}{r} 900\\ +\ 100\\ \hline 1{,}000 \end{array}$$

Directions: Label the tape diagrams to model the following problems.

2. At the zoo, Brooke learned that one of rhinos weighed 4,897 pounds, one of the giraffes weighed 2,667 pounds, and one of the African elephants weighed 12,456 pounds.

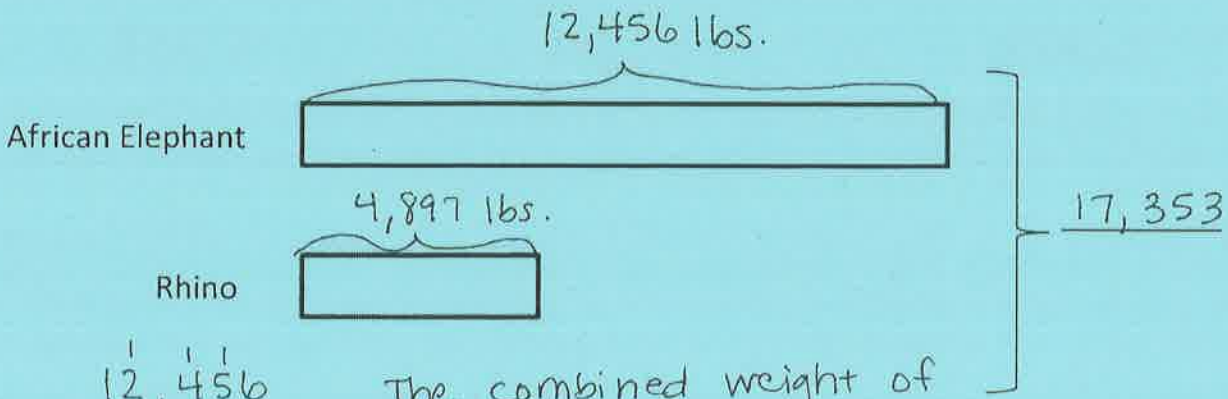
a. What is the combined weight of the zoo's African elephant and the giraffe?




$$\begin{array}{r} {}^{1}{}^{1}{}^{1} \\ 12,456 \\ +\ 2,667 \\ \hline 15,123 \end{array}$$

The combined weight of the African elephant and giraffe is 15,123 pounds.

b. What is the combined weight of the zoo's African elephant and the rhino?




$$\begin{array}{r} {}^{1}{}^{1}{}^{1} \\ 12,456 \\ +\ 4,897 \\ \hline 17,353 \end{array}$$

The combined weight of the African elephant and the rhino is 17,353 pounds.

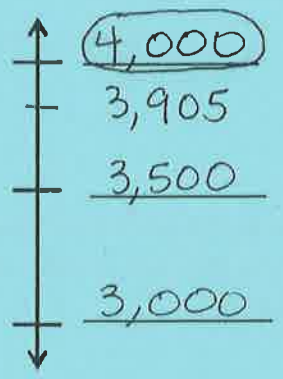
Name Key

Directions: Estimate and then solve each problem. Model the problem with a tape diagram.

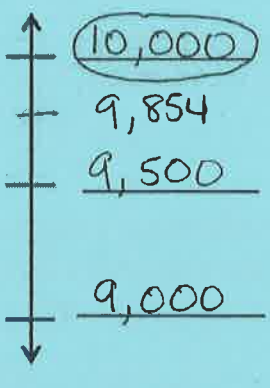
1. There were 3,905 more hits on the school's website in January than February. February had 9,854 hits.

   a. Round to the nearest thousand to **estimate** how many hits the website had during January and February.

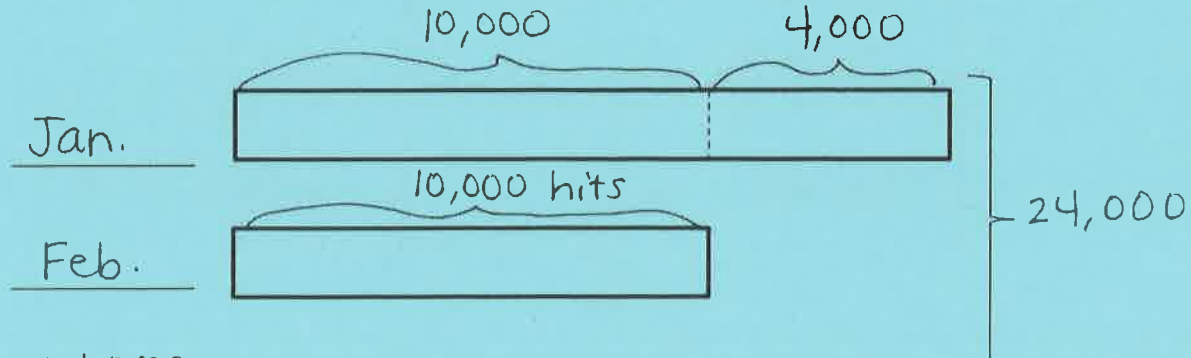
Round 3,905 to the nearest 1,000




Round 9,854 to the nearest 1,000



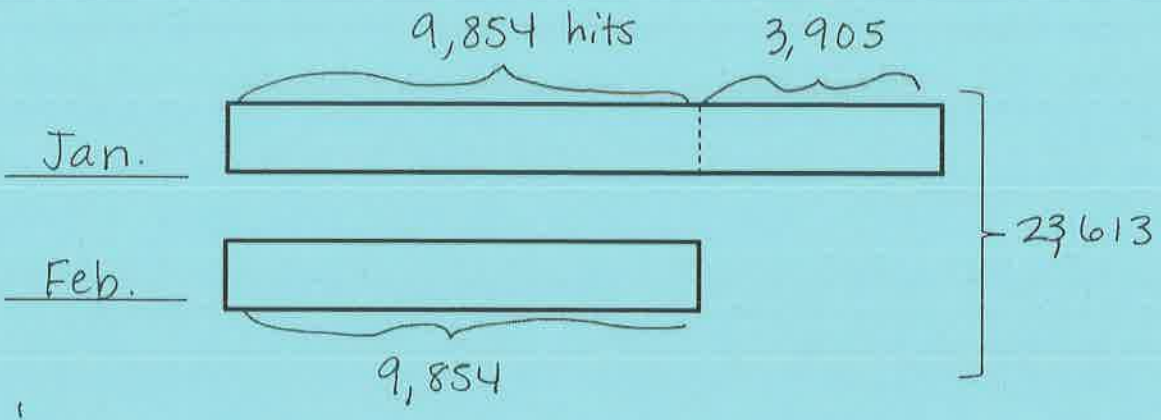

Label the tape diagrams to find your **estimated** answer.




14,000
+ 10,000
24,000

The web site had about 24,000 hits in Jan. and Feb.

b. Exactly how many hits did the website have during January and February?



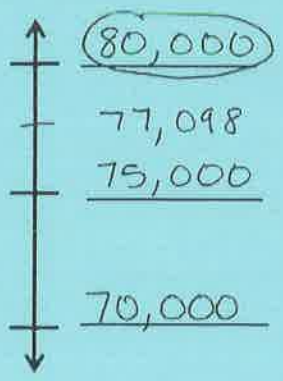

$$\begin{array}{r} {}^{1}9,854 \\ +\ 3,905 \\ \hline 13,759 \end{array}$$

$$\begin{array}{r} {}^{1}{}^{1}{}^{1}13,759 \\ +\ 9,854 \\ \hline 23,613 \end{array}$$

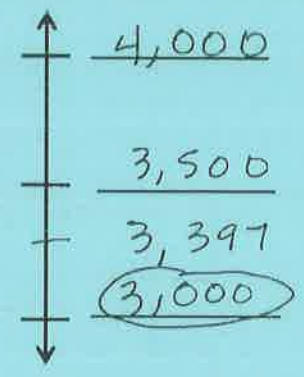
The web site had 23,613 hits in Jan. and Feb.

2. On Sunday, 77,098 fans attended a New York Jets football game. The same day 3,397 more fans attended a New York Giants game than the Jets game. How many football fans watched the Jets and Giants play on Sunday?

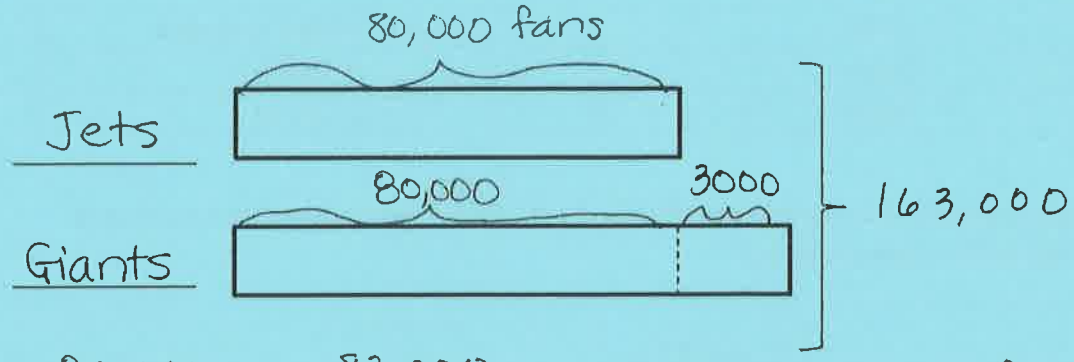
Round 77,098 to the nearest 10,000




Round 3,397 to the nearest 1,000



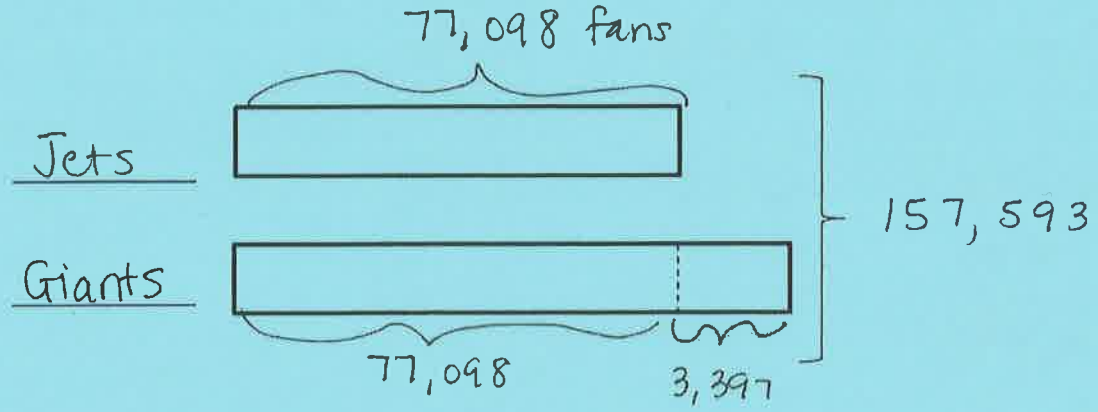
a. Label the tape diagrams to find your **estimated** answer.




$$\begin{array}{r} 80{,}000 \\ +\ 3{,}000 \\ \hline 83{,}000 \end{array} \qquad \begin{array}{r} 83{,}000 \\ +\ 80{,}000 \\ \hline 163000 \end{array}$$

About 163,000 fans watched the Jets and Giants play.

b. Exactly how many fans watched the Jets and Giants play?



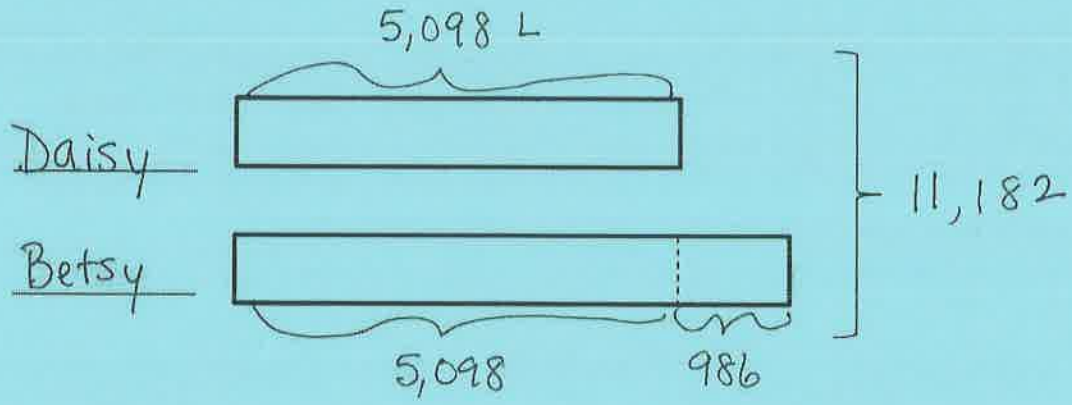

$$\begin{array}{r} {\scriptstyle 1\ 1\ 1} \\ 77{,}098 \\ +\ \ 3{,}397 \\ \hline 80{,}495 \end{array} \qquad \begin{array}{r} {\scriptstyle 1\ 1\ 1} \\ 80{,}495 \\ +\ 77{,}098 \\ \hline 157{,}593 \end{array}$$

157,593 fans watched the Jets and the Giants.

3. Last year on Ted's farm, his two cows produced the following liters of milk:

| Cow | Liters of Milk Produced |
|---|---|
| Daisy | 5,098 |
| Betsy | 6,084 |

Betsy produced 986 more liters of milk than Daisy. Exactly how many liters of milk did both cows produce?




$$\begin{array}{r} {}^{1}5,{}^{1}0{}^{1}98 \\ +\ \ 986 \\ \hline 6,084 \end{array} \qquad \begin{array}{r} 6,{}^{1}0{}^{1}84 \\ +\ 5,098 \\ \hline {}^{1}11,182 \end{array}$$

Both cows produced 11,182 liters of milk.

Name Key

1. Use place value charts and the standard algorithm to solve the following subtraction problems.

a. 431

$-341$

90

b. 7 12
~~8~~ 21

$-331$

490

c. 431

$-220$

211

| Hundreds | Tens | Ones |
|---|---|---|
| ④④④④ | ④④④ | ④ |
| | ⑩⑩⑩⑩⑩ | |
| | ⑩⑩⑩⑩⑩ | |

| Hundreds | Tens | Ones |
|---|---|---|
| ⑩⑩⑩⑩⑩ ⑩⑩⑩ | ⑩⑩ | ⑩ |
| | ⑩⑩⑩⑩⑩ | |
| | ⑩⑩⑩⑩⑩ | |

| Hundreds | Tens | Ones |
|---|---|---|
| ⑩⑩⑩⑩ | ⑩⑩⑩ | ⑩ |

d. 2 17
2,4~~3~~7

$-2,428$

0,009 = 9

| thousands | hundreds | tens | ones |
|---|---|---|---|
| ④④ | ④④④④ | ④④④ | ④④④④④ ④④ |
| | | | ⑩⑩⑩⑩⑩ |
| | | | ⑩⑩⑩⑩⑩ |

e. 6,430

$$\begin{array}{r} -2,300 \\ \hline 4,130 \end{array}$$

| thousands | hundreds | tens | ones |
|---|---|---|---|
| ⊗⊗⊗⊗⊗ | ⊗⊗⊗⊗ | ⊗⊗⊗ | |

f. 3,089

$$\begin{array}{r} -2,079 \\ \hline 1,010 \end{array}$$

| thousands | hundreds | tens | ones |
|---|---|---|---|
| ⊗⊗⊗ | | ⊗⊗⊗⊗⊗ ⊗⊗⊗ | ⊗⊗⊗⊗⊗ ⊗⊗⊗⊗ |

2. What number must be added to 2,056 to result in a sum of 4,713?

Solve any way.

$$\begin{array}{r} 6\ \overset{10}{\not{0}}\ 13 \\ 4,\not{7}\not{1}\not{3} \\ -\ 2,056 \\ \hline 2,657 \end{array}$$

| thousands | hundreds | tens | ones |
|---|---|---|---|
| | | | |

3. Solve using the standard algorithm for subtraction.

a.
$$\begin{array}{r} 745 \\ -432 \\ \hline 313 \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle 5\ 11} \\ 6\not{1}5 \\ -442 \\ \hline 173 \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle 8\ 11\ 15} \\ 9\not{2}\not{5} \\ -527 \\ \hline 398 \end{array}$$

d.
$$\begin{array}{r} 8,640 \\ -7,430 \\ \hline 1,210 \end{array}$$

e.
$$\begin{array}{r} {\scriptstyle 8\ 13} \\ 5,\not{9}\not{3}5 \\ -1,645 \\ \hline 4,290 \end{array}$$

f.
$$\begin{array}{r} {\scriptstyle 2\ 16} \\ 3,\not{6}25 \\ -1,805 \\ \hline 1,820 \end{array}$$

4. Solve using "same change" subtraction.

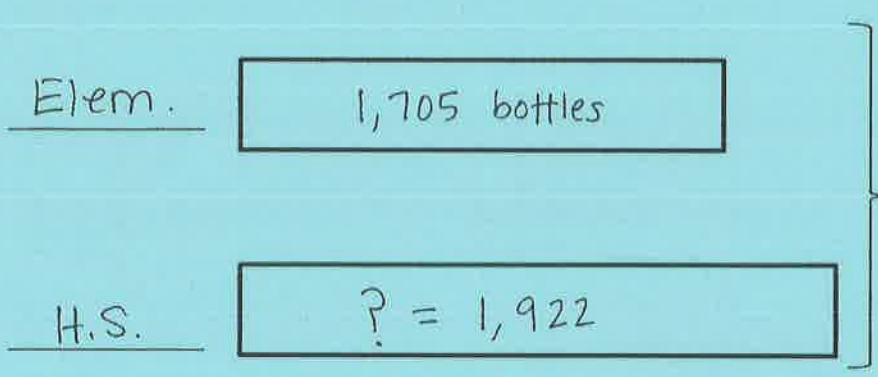
a.
$$\begin{array}{r} 800 \\ -369 \\ \hline 431 \end{array} \longrightarrow \begin{array}{r} 799 \\ -\ 368 \\ \hline 431 \end{array}$$

b.
$$\begin{array}{r} 700 \\ -608 \\ \hline 92 \end{array} \longrightarrow \begin{array}{r} 699 \\ -\ 607 \\ \hline 92 \end{array}$$

c.
$$\begin{array}{r} 400 \\ -255 \\ \hline 145 \end{array} \longrightarrow \begin{array}{r} 399 \\ -\ 254 \\ \hline 145 \end{array}$$

5. Directions: Label a tape diagram to model each problem. Use numbers to solve.

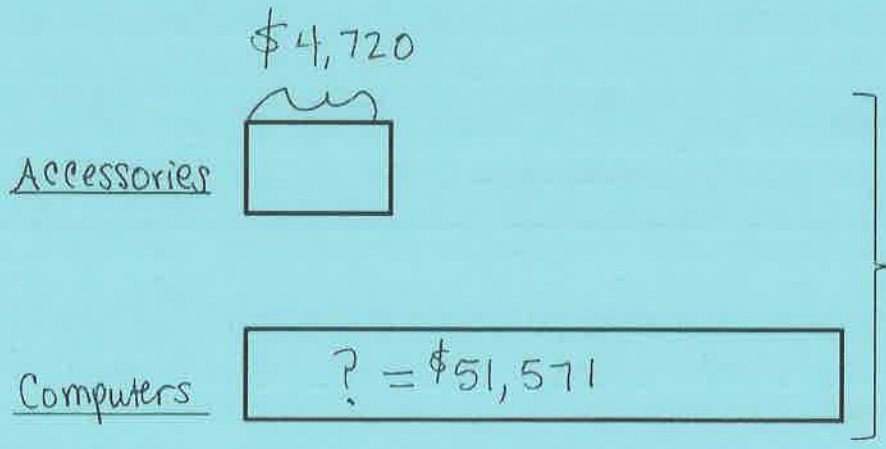
a. An elementary school collected 1,705 bottles for a recycling program. A high school also collected some bottles. Both schools collected 3,627 bottles combined. How many bottles did the high school collect?




$$\begin{array}{r} {}^{2}\cancel{3}\,{}^{16}\cancel{6}27 \\ -\ 1,705 \\ \hline 1,922 \end{array}$$

The high school collected 1,922 bottles.

b. A computer shop sold $56,291 worth of computers and accessories. It sold $4,720 worth of accessories. How much did the computer shop sell in computers?




$$\begin{array}{r} {}^{5}\cancel{5}\,{}^{12}\cancel{6},291 \\ -\ 4,720 \\ \hline 51,571 \end{array}$$

The shop sold $51,571 in computers.

Name Key

1. Directions: Use the standard subtraction algorithm to solve.

a.
$$\begin{array}{r} 8\ 16\ 4\ 16 \\ 9,\not{6}\not{5}\not{6} \\ -\ 8\ 3\ 8 \\ \hline 8,8\ 1\ 8 \end{array}$$

b.
$$\begin{array}{r} 15 \\ 8\ \not{5}\ 15 \\ 9,\not{6}5\not{6} \\ -\ 5,8\ 8\ 0 \\ \hline 3,7\ 7\ 6 \end{array}$$

c.
$$\begin{array}{r} 15 \\ 6\ \not{5}\ 13 \\ \not{7},\not{6}3\not{9} \\ -\ 2,8\ 5\ 3 \\ \hline 4,7\ 8\ 6 \end{array}$$

d.
$$\begin{array}{r} 9 \\ 7\ \not{1}\not{0}\ 14 \\ \not{8}\not{0}\not{4} \\ -\ 3\ 8\ 5 \\ \hline 4\ 1\ 9 \end{array}$$

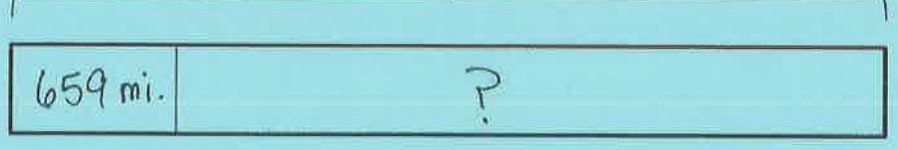
2. Use "same change" subtraction to solve.

a.
$$\begin{array}{r} 9,000 \\ -\ 838 \\ \hline 8\ 1\ 6\ 2 \end{array} \longrightarrow \begin{array}{r} 8,999 \\ -\ \ 837 \\ \hline 8,1\ 6\ 2 \end{array}$$

b.
$$\begin{array}{r} 2,000 \\ -\ 476 \\ \hline 1,5\ 2\ 4 \end{array} \longrightarrow \begin{array}{r} 1,999 \\ -\ \ 475 \\ \hline 1,5\ 2\ 4 \end{array}$$

3. Directions: Use a tape diagram to solve the problems below.

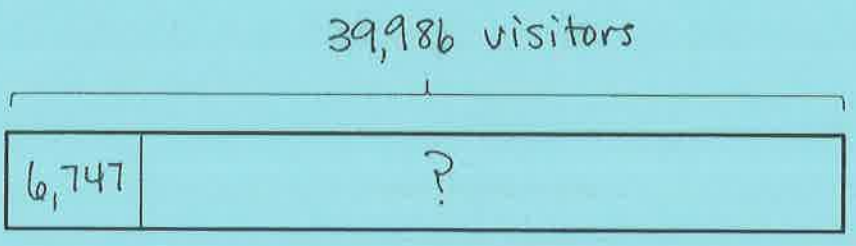
a. A fishing boat was out to sea for 6 months and traveled a total of 8,878 miles. In the first month, the boat traveled 659 miles. How many miles did the fishing boat travel during the remaining 5 months?




$$\begin{array}{r} {}^{6}\cancel{8},{}^{1}\cancel{8}{}^{1}\cancel{7}{}^{1}\cancel{8} \\ -\quad 659 \\ \hline 8,219 \end{array}$$

The boat traveled 8,219 miles in the remaining 5 months.

b. A national monument had 6,747 visitors during the first week of September. A total of 39,986 people visited the monument in September. How many people visited the monument in September after the first week?



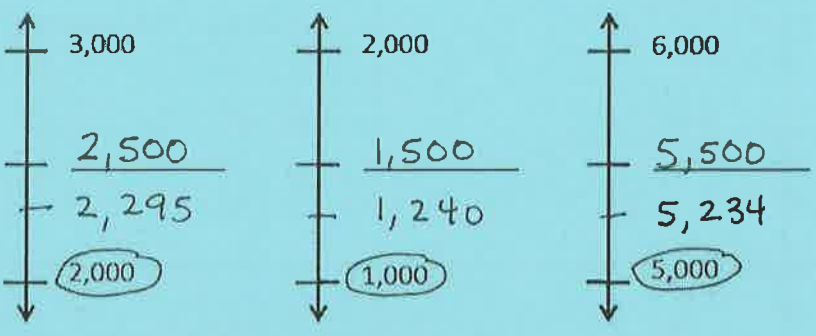

$$\begin{array}{r} {}^{7}\cancel{3}{}^{1}\cancel{9}{}^{1}\cancel{8}\cancel{6} \\ -\quad 6747 \\ \hline 33,239 \end{array}$$

33,239 people visited after the first week in Sept.

Name Key

Directions: Estimate first and then solve each problem with tape diagrams.

1. Zach's final project for a college course had 5,234 words. Zachary wrote 2,295 words the first day and 1,240 words the second day. How many words did he write the last day?



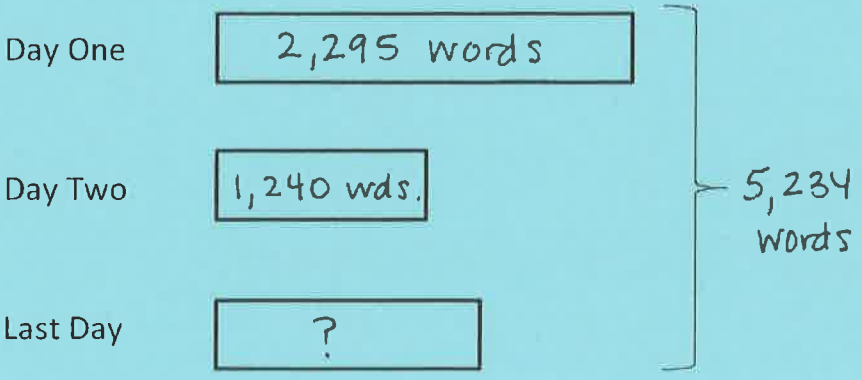

Estimate how many words he wrote the last day.

2,000 + 1,000 = 3,000

5,000 − 3,000 = 2,000

a. **Estimation**: He wrote 2,000 words the last day.

b. Find the exact number of words Zach wrote on the last day for the project.



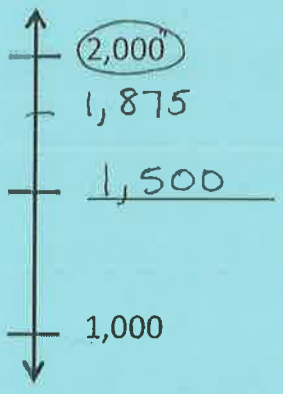

2,295 + 1,240 = 3,535

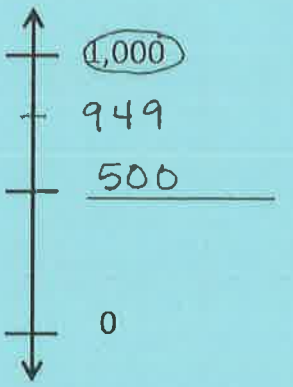
5,234 − 3,535 = 1,699

Zach wrote 1,699 words the last day.

2. During the first quarter of the year, 1,875 people purchased an app for their smartphones. During the second quarter of the year, 949 fewer people downloaded the app than during the first quarter. How many downloads occurred during the two quarters of the year?

First Qtr. (about how much fewer than First Qtr.)



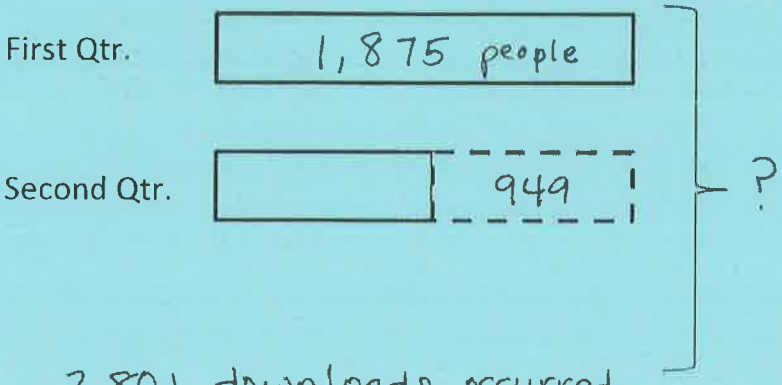

Estimate how many downloads occurred the first two quarters in all.

$2,000 - 1,000 = 1,000$ $\quad 2,000 + 1,000 = 3,000$

a. **Estimation**: They downloaded about 3,000 apps the first two quarters in all.

b. Determine exactly how many downloads occurred during the first two quarters of the year.

$$\begin{array}{r} {}^{6}\,{}^{1} \\ 1,8\not{7}5 \\ -\ 949 \\ \hline 926 \end{array}$$ = 2nd Qtr.



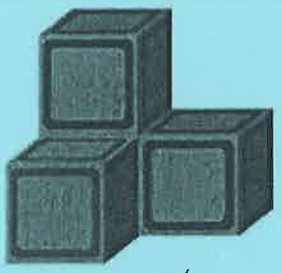

$$\begin{array}{r} {}^{1}\,{}^{1}\,{}^{1} \\ 1,875 \\ +\ 926 \\ \hline 2,801 \end{array}$$

2,801 downloads occurred in the second two quarters.

Name Key

Solve using tape diagrams.

1. Gavin has 1,094 toy building blocks. Avery has only 816 toy building blocks. How many more building blocks does Gavin have?



Gavin | 1,094 blocks |

Avery | 816 blocks | ? |

$$\begin{array}{r} {}^{8}\cancel{1}{}^{14}\cancel{0}\cancel{9}4 \\ -\ 816 \\ \hline 278 \end{array}$$

Gavin has 278 more blocks than Avery.

2. Container A and B hold 875 L of water altogether. Container B holds 75 L more than container A holds. If Container B holds 475 L, how much water does Container A hold?

A | ? |

475 L

B | | 75L |

875 L

$$\begin{array}{r} 475 \\ -\ 75 \\ \hline 400 \end{array}$$

Container A holds 400 L of water.