

Name _____

Date _____

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

a.
$$\begin{array}{r} 7,909 \\ + 1,044 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 27,909 \\ + 9,740 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 827,909 \\ + 42,989 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 289,205 \\ + 11,845 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 547,982 \\ + 114,849 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 258,983 \\ + 121,897 \\ \hline \end{array}$$

g.
$$\begin{array}{r} 83,906 \\ + 35,808 \\ \hline \end{array}$$

h.
$$\begin{array}{r} 289,999 \\ + 91,849 \\ \hline \end{array}$$

i.
$$\begin{array}{r} 754,900 \\ + 245,100 \\ \hline \end{array}$$

Draw a tape diagram to represent each problem. Use numbers to solve, and write your answer as a statement.

2. At the zoo, Brooke learned that one of the rhinos weighs 4,897 pounds, one of the giraffes weighs 2,667 pounds, one of the African elephants weighs 12,456 pounds, and one of the Komodo dragons weighs 123 pounds.

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

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

c. What is the combined weight of the zoo's African elephant, the rhino, and the giraffe?

d. What is the combined weight of the zoo's Komodo dragon and the rhino?

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

1. There were 3,905 more hits on the school's website in January than February. February had 9,854 hits. How many hits did the school's website have during both months?
 - a. About how many hits did the website have during January and February?

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

- c. Is your answer reasonable? Compare your estimate from (a) to your answer from (b). Write a sentence to explain your reasoning.

2. On Sunday, 77,098 fans attended a New York Jets game. The same day, 3,397 more fans attended a New York Giants game than attended the Jets game. Altogether, how many fans attended the games?
- What was the actual number of fans who attended the games?
 - Is your answer reasonable? Round each number to the nearest thousand to find an estimate of how many fans attended the games.

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

| Cow | Liters of Milk Produced |
|-----------|-------------------------|
| Daisy | 5,098 |
| Betsy | |
| Mary | 9,980 |
| Buttercup | 7,087 |

- a. Betsy produced 986 more liters of milk than Buttercup. How many liters of milk did all 4 cows produce?

- b. Is your answer reasonable? Explain.

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1. Use the standard algorithm to solve the following subtraction problems.

a.
$$\begin{array}{r} 2,431 \\ - 341 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 422,431 \\ - 14,321 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 422,431 \\ - 92,420 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 422,431 \\ - 392,420 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 982,430 \\ - 92,300 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 243,089 \\ - 137,079 \\ \hline \end{array}$$

g. $2,431 - 920 =$

h. $892,431 - 520,800 =$

2. What number must be added to 14,056 to result in a sum of 38,773?

Draw a tape diagram to model each problem. Use numbers to solve, and write your answers as a statement. Check your answers.

3. 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?

4. A computer shop sold \$356,291 worth of computers and accessories. It sold \$43,720 worth of accessories. How much did the computer shop sell in computers?

5. The population of a city is 538,381. In that population, 148,170 are children.
- How many adults live in the city?

- 186,101 of the adults are males. How many adults are female?

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1. Use the standard algorithm to solve the following subtraction problems.

a.
$$\begin{array}{r} 71,989 \\ - 21,492 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 371,989 \\ - 96,492 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 371,089 \\ - 25,192 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 879,989 \\ - 721,492 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 879,009 \\ - 788,492 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 879,989 \\ - 21,070 \\ \hline \end{array}$$

g.
$$\begin{array}{r} 879,000 \\ - 21,989 \\ \hline \end{array}$$

h.
$$\begin{array}{r} 279,389 \\ - 191,492 \\ \hline \end{array}$$

i.
$$\begin{array}{r} 500,989 \\ - 242,000 \\ \hline \end{array}$$

Draw a tape diagram to represent each problem. Use numbers to solve, and write your answer as a statement. Check your answers.

- Jason ordered 239,021 pounds of flour to be used in his 25 bakeries. The company delivering the flour showed up with 451,202 pounds. How many extra pounds of flour were delivered?
- In May, the New York Public Library had 124,061 books checked out. Of those books, 31,117 were mystery books. How many of the books checked out were not mystery books?
- A Class A dump truck can haul 239,000 pounds of dirt. A Class C dump truck can haul 600,200 pounds of dirt. How many more pounds can a Class C truck haul than a Class A truck?

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1. Use the standard subtraction algorithm to solve the problems below.

$$\begin{array}{r} \text{a.} \quad 9,656 \\ - \quad \underline{838} \end{array}$$

$$\begin{array}{r} \text{b.} \quad 59,656 \\ - \quad \underline{5,880} \end{array}$$

$$\begin{array}{r} \text{c.} \quad 759,656 \\ - \quad \underline{579,989} \end{array}$$

$$\begin{array}{r} \text{d.} \quad 294,150 \\ - \quad \underline{166,370} \end{array}$$

$$\begin{array}{r} \text{e.} \quad 294,150 \\ - \quad \underline{239,089} \end{array}$$

$$\begin{array}{r} \text{f.} \quad 294,150 \\ - \quad \underline{96,400} \end{array}$$

$$\begin{array}{r} \text{g.} \quad 800,500 \\ - \quad \underline{79,989} \end{array}$$

$$\begin{array}{r} \text{h.} \quad 800,500 \\ - \quad \underline{45,500} \end{array}$$

$$\begin{array}{r} \text{i.} \quad 800,500 \\ - \quad \underline{276,664} \end{array}$$

Use tape diagrams and the standard algorithm to solve the problems below. Check your answers.

2. A fishing boat was out to sea for 6 months and traveled a total of 8,578 miles. In the first month, the boat traveled 659 miles. How many miles did the fishing boat travel during the remaining 5 months?

- A national monument had 160,747 visitors during the first week of September. A total of 759,656 people visited the monument in September. How many people visited the monument in September after the first week?
- Shadow Software Company earned a total of \$800,000 selling programs during the year 2012. \$125,300 of that amount was used to pay expenses of the company. How much profit did Shadow Software Company make in the year 2012?
- At the local aquarium, Bubba the Seal ate 25,634 grams of fish during the week. If, on the first day of the week, he ate 6,987 grams of fish, how many grams of fish did he eat during the remainder of the week?

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1. Zachary's final project for a college course took a semester to write and had 95,234 words. Zachary wrote 35,295 words the first month and 19,240 words the second month.
 - a. Round each value to the nearest ten thousand to estimate how many words Zachary wrote during the remaining part of the semester.

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- b. Find the exact number of words written during the remaining part of the semester.

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-
- c. Use your answer from (a) to explain why your answer in (b) is reasonable.

2. During the first quarter of the year, 351,875 people downloaded an app for their smartphones. During the second quarter of the year, 101,949 fewer people downloaded the app than during the first quarter. How many downloads occurred during the two quarters of the year?
- Round each number to the nearest hundred thousand to estimate how many downloads occurred during the first two quarters of the year.
 - Determine exactly how many downloads occurred during the first two quarters of the year.
 - Determine if your answer is reasonable. Explain.

3. A local store was having a two-week Back to School sale. They started the sale with 36,390 notebooks. During the first week of the sale, 7,424 notebooks were sold. During the second week of the sale, 8,967 notebooks were sold. How many notebooks were left at the end of the two weeks? Is your answer reasonable?

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Draw a tape diagram to represent each problem. Use numbers to solve, and write your answer as a statement.

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

2. Container B holds 2,391 liters of water. Together, Container A and Container B hold 11,875 liters of water. How many more liters of water does Container A hold than Container B?

3. A piece of yellow yarn was 230 inches long. After 90 inches had been cut from it, the piece of yellow yarn was twice as long as a piece of blue yarn. At first, how much longer was the yellow yarn than the blue yarn?

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Draw a tape diagram to represent each problem. Use numbers to solve, and write your answer as a statement.

1. There were 22,869 children, 49,563 men, and 2,872 more women than men at the fair. How many people were at the fair?

2. Number A is 4,676. Number B is 10,043 greater than A. Number C is 2,610 less than B. What is the total value of numbers A, B, and C?

3. A store sold a total of 21,650 balls. It sold 11,795 baseballs. It sold 4,150 fewer basketballs than baseballs. The rest of the balls sold were footballs. How many footballs did the store sell?

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Using the diagrams below, create your own word problem. Solve for the value of the variable.

1. At the local botanical gardens, there are _____

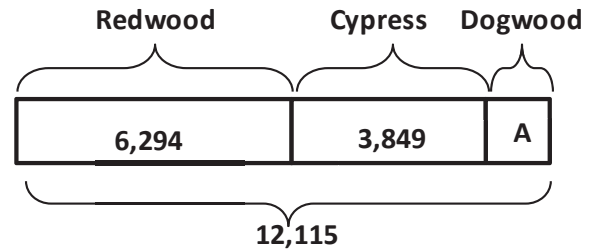
Redwoods and _____ Cypress trees.

There are a total of _____ Redwood,

Cypress, and Dogwood trees.

How many _____

_____ ?



2. There are 65,302 _____

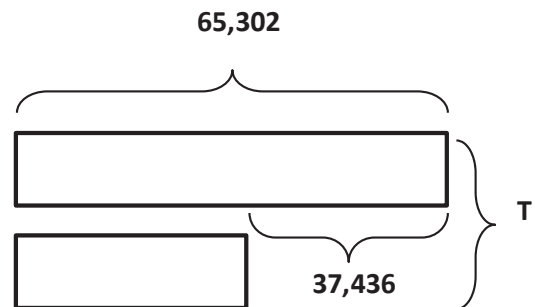
_____.

There are 37,436 fewer _____

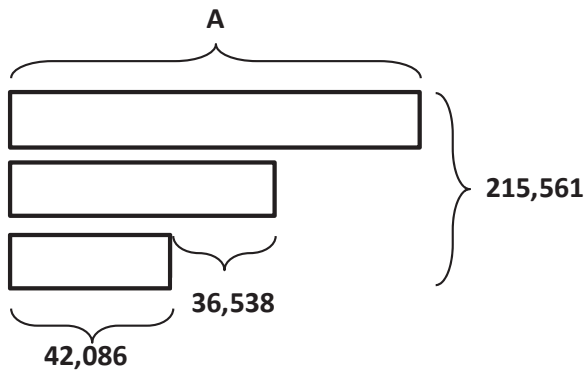
_____.

How many _____

_____ ?



3. Use the following tape diagram to create a word problem. Solve for the value of the variable.



4. Draw a tape diagram to model the following equation. Create a word problem. Solve for the value of the variable.

$$27,894 + A + 6,892 = 40,392$$











Video tutorials: <http://embarc.online>
Info for parents: <http://bit.ly/pusdmath>