

Homework & Practice 2-4

Subtract Whole Numbers

Another Look!



Follow these steps to subtract whole numbers.

Find $7,445 - 1,368$.

Estimate: $7,000 - 1,000 = 6,000$

Step 1

$$\begin{array}{r} ^3 ^{15} \\ 7,44\cancel{5} \\ - 1,368 \\ \hline 7 \end{array}$$

To subtract 8 ones from 5 ones, you must regroup.

Regroup 4 tens as 3 tens and 10 ones.

Subtract 8 ones from 15 ones.

Step 2

$$\begin{array}{r} ^{13} \\ ^3 ^{\cancel{3}} ^{15} \\ 7,44\cancel{5} \\ - 1,368 \\ \hline 77 \end{array}$$

To subtract 6 tens from 3 tens, you must regroup.

Regroup 4 hundreds as 3 hundreds and 10 tens.

Subtract 6 tens from 13 tens.

Step 3

$$\begin{array}{r} ^{13} \\ ^3 ^{\cancel{3}} ^{15} \\ 7,44\cancel{5} \\ - 1,368 \\ \hline 077 \end{array}$$

Subtract 3 hundreds from 3 hundreds.

Step 4

$$\begin{array}{r} ^{13} \\ ^3 ^{\cancel{3}} ^{15} \\ 7,44\cancel{5} \\ - 1,368 \\ \hline 6,077 \end{array}$$

Subtract 1 thousand from 7 thousands.

Check your answer using addition.

$$\begin{array}{r} ^1 \\ ^1 \\ 6,077 \\ + 1,368 \\ \hline 7,445 \end{array}$$

For **1–8**, find the difference. Use inverse operations or estimate to check if your answer is reasonable.

1.
$$\begin{array}{r} 8,737 \\ - 6,754 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 411,765 \\ - 402,120 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 43,429 \\ - 17,101 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 952,746 \\ - 184,524 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 17,863 \\ - 3,747 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 513,363 \\ - 382,895 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4,226 \\ - 2,958 \\ \hline \end{array}$$

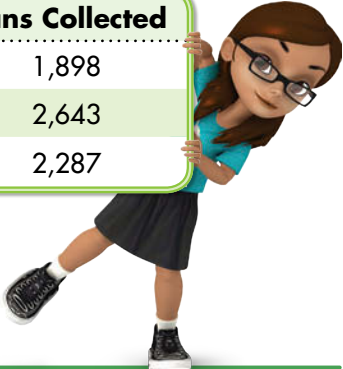
8.
$$\begin{array}{r} 67,451 \\ - 29,609 \\ \hline \end{array}$$

9. © **MP.1 Make Sense and Persevere**

The Environmental Club's goal is to collect 9,525 cans by the end of four months. How can you find the number of cans the club needs to collect in September to meet their goal? How many more cans do they need?

DATA

Month	Cans Collected
June	1,898
July	2,643
August	2,287



10. **Number Sense** Naima's pedometer recorded 43,498 steps in one week. Her goal is 88,942 steps. Naima estimates she has about 50,000 more steps to meet her goal. Is Naima's estimate reasonable? Explain.

11. © **MP.3 Critique Reasoning** Mitch wrote the subtraction below. What mistake did Mitch make? What is the correct answer?

$$\begin{array}{r} 657,392 \\ - 434,597 \\ \hline 222,895 \end{array}$$

12. Compare the values of the 2s and 5s in 55,220.

13. **Higher Order Thinking** A restaurant has 1,996 forks, 1,745 knives, and 2,116 spoons. The owner wants to have 2,000 of each utensil. She can buy more utensils or donate extra utensils. How many additional forks and knives are needed? How many extra spoons are there?

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14. During his first year as a pilot, Rob flies 6,692 miles. He flies 16,429 miles the second year and 24,211 miles the third year. He wants to estimate how many more miles he flew in the third year than in the first and second years combined. Which shows one way Rob could estimate?

(A) $24,000 - (7,000 + 16,000)$

(C) $(16,000 - 7,000) + 24,000$

(B) $(24,000 + 7,000) - 16,000$

(D) $24,000 + 16,000 + 7,000$