

# unit 1

## working with whole numbers

### Place Value to Thousands

Every whole number with four digits has a thousands, hundreds, tens, and ones place.

Th	H	T	O	Number
5,	7	4	6	= 5,746

5 is in the thousands place. Its value is 5,000.

7 is in the hundreds place. Its value is 700.

4 is in the tens place. Its value is 40.

6 is in the ones place. Its value is 6.

$$5,000 + 700 + 40 + 6 = 5,746$$

Write each number.

*a*

1. 

Th	H	T	O
2,	5	6	1

 = 2,561

*b*

1. 

Th	H	T	O
4,	7	3	9

 = \_\_\_\_\_

*c*

1. 

Th	H	T	O
6,	2	6	8

 = \_\_\_\_\_

2. 

Th	H	T	O
8,	0	9	1

 = \_\_\_\_\_

2. 

Th	H	T	O
5,	4	7	3

 = \_\_\_\_\_

2. 

Th	H	T	O
3,	5	0	2

 = \_\_\_\_\_

3. 

Th	H	T	O
6,	6	4	8

 = \_\_\_\_\_

3. 

Th	H	T	O
9,	7	2	2

 = \_\_\_\_\_

3. 

Th	H	T	O
2,	0	5	9

 = \_\_\_\_\_

4. 

Th	H	T	O
3,	5	4	1

 = \_\_\_\_\_

4. 

Th	H	T	O
1,	9	4	3

 = \_\_\_\_\_

4. 

Th	H	T	O
5,	5	4	0

 = \_\_\_\_\_

Write each number.

5. 7 thousands    4 hundreds    5 tens    2 ones    = 7,452

6. 3 thousands    0 hundreds    9 tens    5 ones    = \_\_\_\_\_

7. 8 thousands    6 hundreds    2 tens    0 ones    = \_\_\_\_\_

Write the value of each underlined digit.

*a*

8. 8,694    600    \_\_\_\_\_

*b*

8. 6,324    \_\_\_\_\_

*c*

8. 7,904    \_\_\_\_\_

9. 5,039    \_\_\_\_\_

9. 7,334    \_\_\_\_\_

9. 958    \_\_\_\_\_

10. 8,694    \_\_\_\_\_

10. 6,157    \_\_\_\_\_

10. 8,904    \_\_\_\_\_

# Place Value to Millions

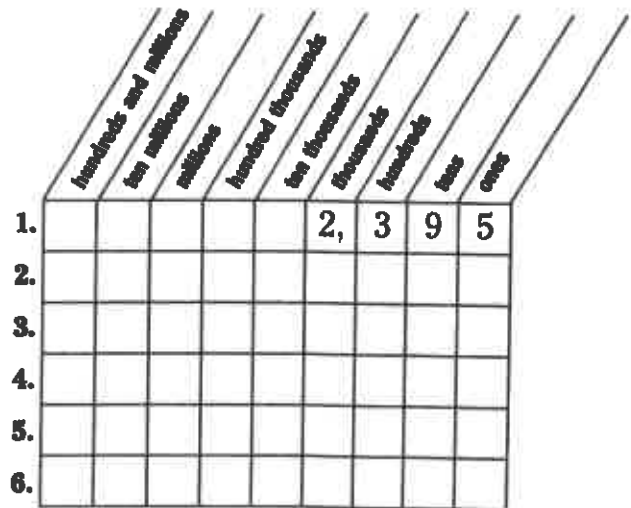
A place-value chart can help you understand whole numbers. Each digit in a number has a value based on its place in the number.

The 6 is in the millions place.  
 Its value is 6 millions or 6,000,000.  
 The 2 is in the hundred-thousands place.  
 Its value is 2 hundred thousands or 200,000.  
 The 3 is in the tens place.  
 Its value is 3 tens or 30.



Write each number in the place-value chart.

- 2,395
- 418,702
- 20,091,576
- 987
- 13,820
- 5,482,637



Write the place name for the 4 in each number.

a

b

- 251,349 \_\_\_\_\_ *tens*
- 104,361,870 \_\_\_\_\_
- 1,264 \_\_\_\_\_
- 8,504,976 \_\_\_\_\_

- 1,147,865 \_\_\_\_\_
- 51,428 \_\_\_\_\_
- 49,617,501 \_\_\_\_\_
- 439,060 \_\_\_\_\_

Write the value of the underlined digit.

a

b

- 121,764 \_\_\_\_\_ *7 hundreds or 700*
- 56,340 \_\_\_\_\_
- 3,412,906 \_\_\_\_\_
- 196,358 \_\_\_\_\_

- 283,145,167 \_\_\_\_\_
- 2,401,637 \_\_\_\_\_
- 892,465,182 \_\_\_\_\_
- 410,295 \_\_\_\_\_

## Reading and Writing Numbers

We read and write the number in this place-value chart as: twelve thousand, forty-five.

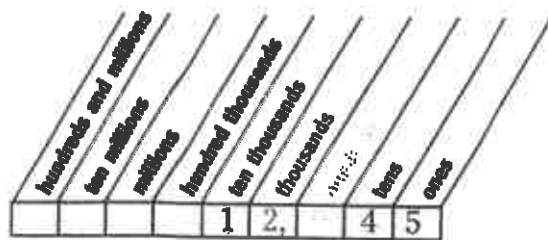
The digit 1 means 1 ten thousand, or 10,000.

The digit 2 means 2 thousands, or 2,000.

The digit 4 means 4 hundreds, or 400.

The digit 1 means 1 tens, or 10.

The digit 5 means 5 ones, or 5.



Notice that commas are used to separate the digits into groups of three. This helps make larger numbers easier to read.

Rewrite each number. Insert commas where needed.

- |    |          |                   |          |                  |          |                |
|----|----------|-------------------|----------|------------------|----------|----------------|
|    | <i>a</i> |                   | <i>b</i> |                  | <i>c</i> |                |
| 1. | 345156   | <u>345,156</u>    | 10105    | <u>10,105</u>    | 221689   | <u>221,689</u> |
| 2. | 2970534  | <u>2,970,534</u>  | 369571   | <u>369,571</u>   | 50148    | <u>50,148</u>  |
| 3. | 17652017 | <u>17,652,017</u> | 5304602  | <u>5,304,602</u> | 189360   | <u>189,360</u> |

Write each number using digits. Insert commas where needed.

- five hundred twenty-nine thousand, thirty-one 529,031
- seventy-six thousand, four hundred eleven 76,411
- eight million, fifty thousand, two hundred 8,050,200
- two thousand, three hundred seven 2,307
- ninety-four thousand, six hundred fifty-five 94,655

Write each number using words. Insert commas where needed.

- 23,880 twenty-three thousand, eight hundred eighty
- 730,604 seven hundred thirty thousand, six hundred four
- 19,042 nineteen thousand, forty-two
- 5,208,000 five million, two hundred eight thousand

# Comparing Whole Numbers

To compare two numbers, begin at the left.  
Compare the digits in each place.

The symbol  $<$  means **is less than**.       $3 < 4$   
 The symbol  $>$  means **is greater than**.       $8 > 6$   
 The symbol  $=$  means **is equal to**.           $7 = 7$



Compare 47 and 29.

4	7	$4 > 2$ , so
2	9	$47 > 29$ .

Compare 123 and 98.

1	2	3	$1 > 0$ , so
0	9	8	$123 > 98$ .

Compare 326 and 351.

3	2	6	The hundreds digits are the same. Compare the tens digits.
3	5	1	
$2 < 5$ , so $326 < 351$ .			

Compare. Write  $<$ ,  $>$ , or  $=$ .

- | a   | b   | c   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. $72 \underline{\hspace{2cm}} > \underline{\hspace{2cm}} 27$                          | $83 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 90$       | $39 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 44$       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <table border="1"> <tr><td>7</td><td>2</td></tr> <tr><td>2</td><td>7</td></tr> </table> | 7   | 2   | 2 | 7 | <table border="1"> <tr><td>8</td><td>3</td></tr> <tr><td>9</td><td>0</td></tr> </table>                     | 8 | 3 | 9 | 0 | <table border="1"> <tr><td>3</td><td>9</td></tr> <tr><td>4</td><td>4</td></tr> </table> | 3 | 9   | 4 | 4 |   |   |   |   |
| 7   | 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2   | 7   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8   | 3   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9   | 0   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   | 9   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4   | 4   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2. $58 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 59$                            | $563 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 356$     | $721 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 712$     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <table border="1"> <tr><td>5</td><td>8</td></tr> <tr><td>5</td><td>9</td></tr> </table> | 5   | 8   | 5 | 9 | <table border="1"> <tr><td>5</td><td>6</td><td>3</td></tr> <tr><td>3</td><td>5</td><td>6</td></tr> </table> | 5 | 6 | 3 | 3 | 5   | 6 | <table border="1"> <tr><td>7</td><td>2</td><td>1</td></tr> <tr><td>7</td><td>1</td><td>2</td></tr> </table> | 7 | 2 | 1 | 7 | 1 | 2 |
| 5   | 8   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5   | 9   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5   | 6   | 3   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   | 5   | 6   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7   | 2   | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7   | 1   | 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3. $619 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 640$                          | $468 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 468$     | $226 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 220$     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4. $893 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 98$                           | $3,695 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 3,659$ | $7,291 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 7,921$ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5. $35 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 35$                            | $62 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 92$       | $100 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 99$      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6. $207 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 204$                          | $380 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 80$      | $174 \underline{\hspace{2cm}} \underline{\hspace{2cm}} 474$     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Check What You Know****Adding and Subtracting 1 and 2 Digits**

Add or subtract.

	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>
<b>1.</b>	$\begin{array}{r} 35 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ + 24 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ + 33 \\ \hline \end{array}$
<b>2.</b>	$\begin{array}{r} 43 \\ + 24 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ + 31 \\ \hline \end{array}$	$\begin{array}{r} 82 \\ + 16 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ + 23 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ + 15 \\ \hline \end{array}$
<b>3.</b>	$\begin{array}{r} 50 \\ + 33 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ + 25 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ + 25 \\ \hline \end{array}$	$\begin{array}{r} 56 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ + 32 \\ \hline \end{array}$
<b>4.</b>	$\begin{array}{r} 12 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ + 23 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ + 19 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ + 23 \\ \hline \end{array}$
<b>5.</b>	$\begin{array}{r} 45 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ - 23 \\ \hline \end{array}$	$\begin{array}{r} 66 \\ - 14 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ - 31 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ - 22 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ - 12 \\ \hline \end{array}$
<b>6.</b>	$\begin{array}{r} 49 \\ - 27 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ - 46 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ - 18 \\ \hline \end{array}$	$\begin{array}{r} 79 \\ - 27 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 88 \\ - 56 \\ \hline \end{array}$
<b>7.</b>	$\begin{array}{r} 65 \\ - 55 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ - 33 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ - 42 \\ \hline \end{array}$	$\begin{array}{r} 97 \\ - 26 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ - 15 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ - 48 \\ \hline \end{array}$
<b>8.</b>	$\begin{array}{r} 54 \\ - 23 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ - 18 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ - 37 \\ \hline \end{array}$	$\begin{array}{r} 99 \\ - 66 \\ \hline \end{array}$	$\begin{array}{r} 89 \\ - 27 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ - 15 \\ \hline \end{array}$


**Check What You Know**
**SHOW YOUR WORK****Adding and Subtracting 1 and 2 Digits**

Solve each problem.

9. Kai has 10 postcards from her cousin Alicia. She put them into her collection box with her other 46 postcards. How many postcards does Kai have in her box?

There are \_\_\_\_\_ postcards in her box.

10. Mr. Dimas has 15 new students in his fourth-grade class. He already has 21 students in the class. How many students are in Mr. Dimas's class?

There are \_\_\_\_\_ students in his class.

11. There are 35 pages in Kendrick's science book. Last night, Kendrick read 14 pages. How many more pages does Kendrick have left to read?

There are \_\_\_\_\_ pages left to read.

12. Kono's father gave him 75 apples so he could pass them out to his friends. If Kono gave 43 away, how many apples does he have left?

There are \_\_\_\_\_ apples left.

13. Monica and Tania want to throw a surprise party for Rosa. They plan to send out 45 invitations. If Tania writes 24, how many invitations does Monica need to write?

Monica needs to write \_\_\_\_\_ invitations.

14. Seki's soccer team is in the State Cup Tournament. There were 23 goals made in the entire tournament. Seki's team made 12 of them. How many goals were made by the other teams?

The other teams scored \_\_\_\_\_ goals.

9.

10.

11.

12.

13.

14.

# Lesson 1.8 Thinking Addition for Subtraction

These numbers should be the same.

$$\begin{array}{r}
 \phantom{0}138 \\
 - \phantom{0}24 \\
 \hline
 \phantom{0}114 \\
 + \phantom{0}24 \\
 \hline
 \phantom{0}138
 \end{array}$$

To check

$$\begin{array}{l}
 138 - 24 = 114, \\
 \text{add } 24 \text{ to } 114.
 \end{array}$$

Subtract. Then, check your answer.

	a	b	c	d	e	f
1.	$\begin{array}{r} 88 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ -19 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ -73 \\ \hline \end{array}$
	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

2.	$\begin{array}{r} 38 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ -36 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ -32 \\ \hline \end{array}$	$\begin{array}{r} 29 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -39 \\ \hline \end{array}$
	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

3.	$\begin{array}{r} 155 \\ - 28 \\ \hline \end{array}$	$\begin{array}{r} 132 \\ - 38 \\ \hline \end{array}$	$\begin{array}{r} 179 \\ - 82 \\ \hline \end{array}$	$\begin{array}{r} 127 \\ - 89 \\ \hline \end{array}$	$\begin{array}{r} 141 \\ - 62 \\ \hline \end{array}$	$\begin{array}{r} 137 \\ - 52 \\ \hline \end{array}$
	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

4.	$\begin{array}{r} 187 \\ - 99 \\ \hline \end{array}$	$\begin{array}{r} 119 \\ - 20 \\ \hline \end{array}$	$\begin{array}{r} 192 \\ - 73 \\ \hline \end{array}$	$\begin{array}{r} 108 \\ - 39 \\ \hline \end{array}$	$\begin{array}{r} 188 \\ - 90 \\ \hline \end{array}$	$\begin{array}{r} 164 \\ - 78 \\ \hline \end{array}$
	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$	$\begin{array}{r} + \\ \hline \end{array}$

**Lesson 1.9** Problem Solving**SHOW YOUR WORK**

Solve each problem.

1. Isabel Jones needs to sell 175 calendars to raise money for the school band. She already sold 89 calendars. How many more calendars does she have to sell?

She has to sell \_\_\_\_\_ calendars.

2. Jacob Elementary School had a book drive. On Monday, the students collected 95 books. They collected 78 more books on Tuesday. How many books did the students collect?

The students collected \_\_\_\_\_ books.

3. The Grover family went on a spring vacation. Their cabin is 305 miles away. If they drive 98 miles the first day, how many more miles do they have to drive to get to the cabin?

They must drive \_\_\_\_\_ more miles.

4. The school cafeteria had an all-you-can-eat pizza party for the entire school. They made 215 slices of cheese pizza and 120 slices of pepperoni pizza. How many slices of pizza did they make?

They made \_\_\_\_\_ slices of pizza.

5. There are 250 species of turtles and tortoises in the world. If there are 86 species listed as endangered, how many species of turtles and tortoises are not endangered?

There are \_\_\_\_\_ species of turtles and tortoises that are not endangered.

1.

2.

3.

4.

5.





Name \_\_\_\_\_

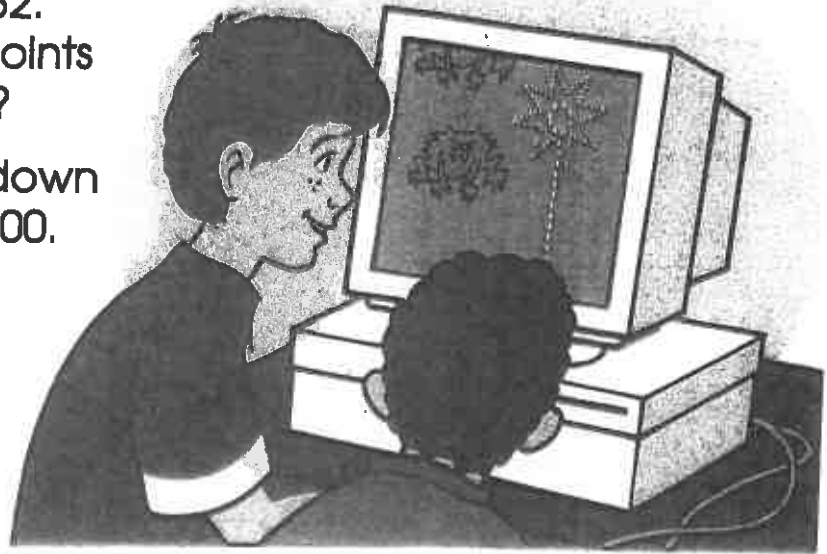
## Estimating

**Directions:** Round the numbers to the nearest hundred. Then solve the problems.

**Example:** Jack and Alex were playing a computer game. Jack scored 428 points. Alex scored 132. About how many more points did Jack score than Alex?

Round Jack's 428 points down to the nearest hundred, 400.

Round Alex's 132 points down to 100. Subtract.



$$\begin{array}{r} \text{estimate} \quad 400 \\ - 100 \\ \hline 300 \end{array}$$

$\begin{array}{r} 258 \rightarrow \\ + 117 \rightarrow \\ \hline 375 \end{array} \quad \begin{array}{r} 300 \\ + 100 \\ \hline 400 \end{array}$	$\begin{array}{r} 493 \rightarrow \\ + 114 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 837 \rightarrow \\ - 252 \rightarrow \\ \hline \end{array}$
$\begin{array}{r} 928 \rightarrow \\ - 437 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 700 \rightarrow \\ - 491 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 319 \rightarrow \\ + 630 \rightarrow \\ \hline \end{array}$
$\begin{array}{r} 332 \rightarrow \\ + 567 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 493 \rightarrow \\ - 162 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 1,356 \rightarrow \\ + 2,941 \rightarrow \\ \hline \end{array}$



Name \_\_\_\_\_

## Estimating

To **estimate** means to give an approximate, rather than an exact, answer. To find an estimated sum or difference, round the numbers of the problem, then add or subtract. If the number has **5** ones or more, round up to the nearest ten. If the number has **4** ones or less, round down to the nearest ten.

**Directions:** Round the numbers to the nearest ten, hundred, or thousand. Then, add or subtract.

**Examples:**

**Ten**

$\begin{array}{r} 74 \rightarrow 70 \\ + 39 \rightarrow + 40 \\ \hline 110 \end{array}$	$\begin{array}{r} 64 \rightarrow 60 \\ - 25 \rightarrow - 30 \\ \hline 30 \end{array}$
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**Hundred**

$\begin{array}{r} 352 \rightarrow 400 \\ - 164 \rightarrow - 200 \\ \hline 200 \end{array}$
---

**Thousand**

$\begin{array}{r} 7,681 \rightarrow 8,000 \\ + 4,321 \rightarrow + 4,000 \\ \hline 12,000 \end{array}$
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Round these numbers to the nearest ten.

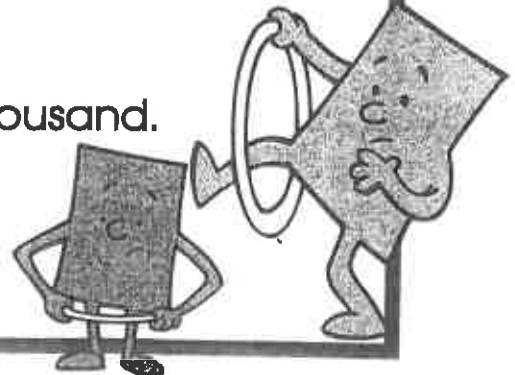
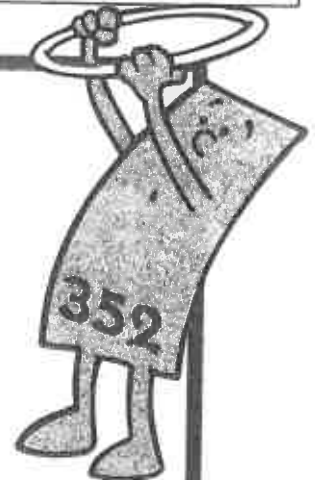
$\begin{array}{r} 18 \rightarrow \\ + 24 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 49 \rightarrow \\ - 33 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 67 \rightarrow \\ - 56 \rightarrow \\ \hline \end{array}$
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Round these numbers to the nearest hundred.

$\begin{array}{r} 255 \rightarrow \\ - 99 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 526 \rightarrow \\ + 145 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 102 \rightarrow \\ - 75 \rightarrow \\ \hline \end{array}$
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Round these numbers to the nearest thousand.

$\begin{array}{r} 8,361 \rightarrow \\ + 889 \rightarrow \\ \hline \end{array}$	$\begin{array}{r} 9,926 \rightarrow \\ + 3,645 \rightarrow \\ \hline \end{array}$
---	---





Name \_\_\_\_\_

## Fact Factory

**Factors** are the numbers multiplied together in a multiplication problem. The **product** is the answer.

**Directions:** Write the missing factors or products.

X	5
1	5
5	
4	20
6	
3	
2	10
7	
9	45

X	9
8	72
3	
4	
9	
6	54
7	
2	
1	9

X	7
2	14
5	
	42
8	
7	
4	
	21
0	

X	3
7	
4	
6	
1	
3	
2	
5	
8	

X	1
1	
12	
10	
3	3
5	
7	
6	
4	

	8
9	
8	
4	
5	
6	
7	
3	
2	

	2
24	
2	
22	
4	
20	
6	
18	
8	

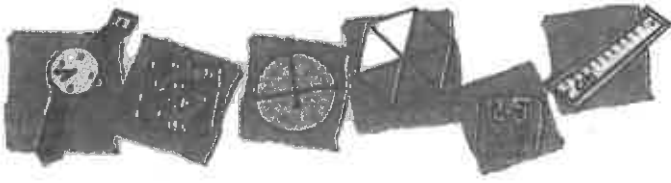
X	4
2	
4	
6	
8	
	4
	12
	20
	28

X	6
7	
6	
5	
4	
3	
2	
1	
0	

X	10
	20
3	
	40
5	
	60
7	
	80
9	

X	11
4	
7	
9	
10	
3	
5	
6	
8	

X	12
1	
2	24
3	
4	48
5	
6	
7	
8	



Name \_\_\_\_\_

## Problem Solving

**Directions:** Solve each problem.

1. Last week Sean's father worked five 8-hour shifts. How many hours did he work last week?

He worked \_\_\_\_\_ shifts.

There were \_\_\_\_\_ hours in each shift.

He worked \_\_\_\_\_ hours last week.

2. A certain factory operates two 8-hour shifts each day. How many hours does the factory operate each day?

There are \_\_\_\_\_ shifts.

There are \_\_\_\_\_ hours in each shift.

The factory operates \_\_\_\_\_ hours each day.

3. It takes the cleanup crew 4 hours to clean the factory after each day's work. How many hours will the cleanup crew work during a 5-day week?

The cleanup crew works \_\_\_\_\_ hours a day.

They work \_\_\_\_\_ days a week.

The cleanup crew works \_\_\_\_\_ hours a week.

4. Lauren's mother works 5 hours each day. She works 5 days each week. How many hours does she work each week?

She works \_\_\_\_\_ hours each week.

5. It costs a company \$8 an hour to operate a certain machine. How much will it cost to operate the machine for 6 hours?

It will cost \$\_\_\_\_\_.



Name \_\_\_\_\_

# Multiplication Facts

5. Find the **5**-row.
- x 6** Find the **6**-column.
30. The product is named where the 5-row and 6-column meet.

Use the table to multiply.

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

5-row →

6-column

3	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

**Directions:** Multiply.

$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$
$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$

