

Rounding to the Nearest Hundred

Name: _____

Read and try to solve the problem below.

There are 236 third graders at Huron Elementary School. What is 236 rounded to the nearest hundred?

TRY IT



Math Toolkit

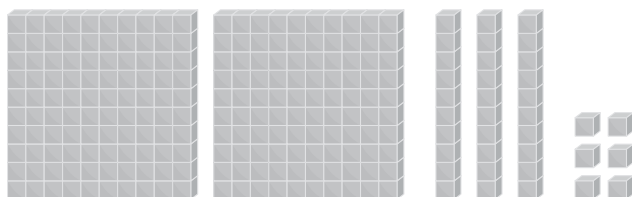
- base-ten blocks
- hundreds place-value charts
- number lines

Explore different ways to understand rounding to the nearest hundred.

There are 236 third graders at Huron Elementary School. What is 236 rounded to the nearest hundred?

PICTURE IT

Use base-ten blocks to show the number you are rounding.



236 has 2 hundreds, so it is between 200 and 300.

The drawing shows that 236 is 2 hundreds + 3 tens + 6 ones.

SOLVE IT

Use what you know about rounding to solve the problem.

There are 10 tens in each hundred. **Halfway** between 0 tens and 10 tens is **5 tens**.

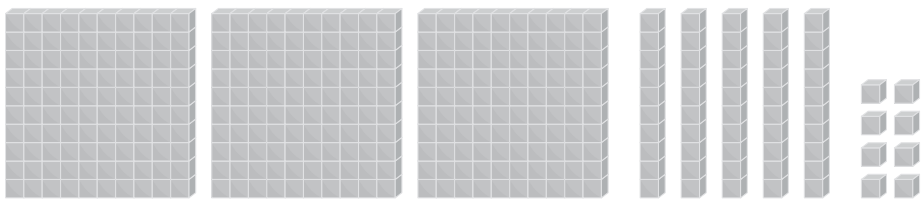
236 has 2 hundreds, **3 tens**, and 6 ones. Because 3 tens is less than 5 tens, round down.

236 rounded to the nearest hundred is 200.

CONNECT IT

Now you will use the problem from the previous page to help you understand how to solve a new problem involving rounding to the nearest hundred.

Round 358 to the nearest hundred.



- 1 The number 358 is between which two hundreds?
- 2 What digit is in the tens place?
- 3 What number of tens is halfway between hundreds?
- 4 What is 358 rounded to the nearest hundred?
- 5 Did you round up or round down? Explain how you knew which hundred to round to.

6 REFLECT

Look back at your **Try It**, strategies by classmates, and **Picture It** and **Solve It**. Which models or strategies do you like best for rounding to the nearest hundred? Explain.

.....

.....

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.....

APPLY IT

Use what you just learned to solve these problems.

- 7 What is 476 rounded to the nearest hundred? Show your work.

Solution

- 8 You are rounding to the nearest hundred. What numbers less than 100 would round to 100? Show your work.

Solution

- 9 Which numbers will round to 300 when rounded to the nearest hundred?
- (A) 248
 - (B) 348
 - (C) 250
 - (D) 350
 - (E) 308

Rounding to the Nearest Hundred Practice Pages

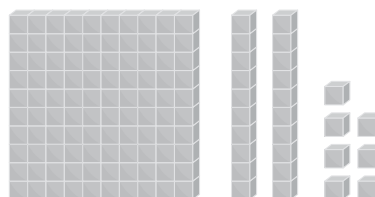
Name: _____

**Study the Example showing rounding to the nearest hundred.
Then solve problems 1–10.**

EXAMPLE

There are 127 crayons in a bin. What is 127 rounded to the nearest hundred?

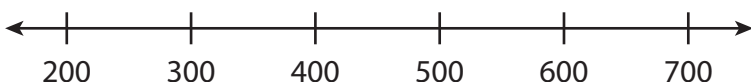
In the drawing, you can see that 127 is 1 hundred + 2 tens + 7 ones.



The number 127 is between 100 and 200. The halfway number between 100 and 200 is 150. The number 127 is less than the halfway number.

So, 127 is nearer to 100 than to 200.
127 rounded to the nearest hundred is 100.

- 1 The number 684 is between which two hundreds?
Circle the two hundreds on the number line.



- 2 What is the halfway number between the two hundreds you circled?
- 3 What is 684 rounded to the nearest hundred?
- 4 What is 694 rounded to the nearest hundred?
- 5 What is 674 rounded to the nearest hundred?
- 6 What is 624 rounded to the nearest hundred?

Rounding to the Nearest Hundred Practice Pages *continued*

Name: _____

7 Answer the questions below to round 377 to the nearest hundred.

a. The number 377 is between which two hundreds?

..... and

b. What number is halfway between these two hundreds?

c. Is 377 *less than* or *greater than* the halfway number?

d. Will you round up or down?

e. What is 377 rounded to the nearest hundred?

8 The table below shows the miles between U.S. cities. Round each distance to the nearest hundred miles.

Cities	Distance in Miles	Distance to the Nearest Hundred Miles
Phoenix and Las Vegas	292	
Los Angeles and San Francisco	386	

9 Which of these numbers could it be? Here are the clues.

- The number is between the two hundreds, 500 and 600.
- The number is greater than the halfway number.
- You will round up to round this number to the nearest hundred.

What is the number? Circle the correct answer.

525 575 501 650

10 What is 999 rounded to the nearest hundred?

Using Place-Value Strategies to Add

Name: _____

Read and try to solve the problem below.

Garcia has 130 trading cards.
Mark has 280 trading cards.
How many trading cards do
Garcia and Mark have together?

TRY IT



Math Toolkit

- base-ten blocks
- hundreds place-value charts
- number lines

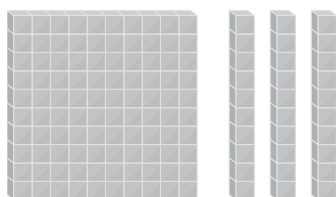
Explore different ways to understand how to add three-digit numbers.

Garcia has 130 trading cards. Mark has 280 trading cards. How many trading cards do Garcia and Mark have together?

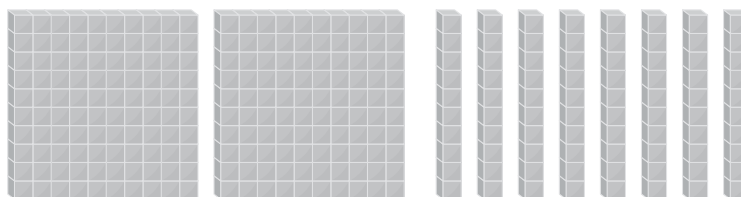
PICTURE IT

You can use base-ten blocks to help add three-digit numbers.

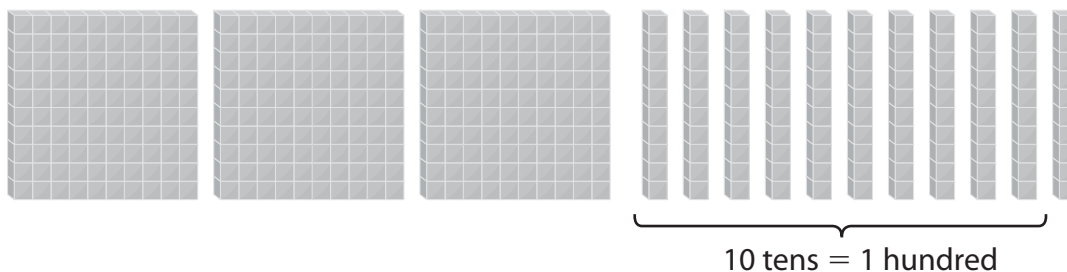
This model shows the 130 trading cards Garcia has.



This model shows the 280 trading cards Mark has.



The model below shows the total number of trading cards Garcia and Mark have.



MODEL IT

You can also use place value and partial sums to help add three-digit numbers.

$$\begin{array}{r} 130 \\ + 280 \\ \hline \end{array}$$

0 → There are **0 ones** in both numbers.

110 → 3 tens + 8 tens = **11 tens**, or 1 hundred + 1 ten, or **110**

300 → 1 hundred + 2 hundreds = **3 hundreds**, or **300**

CONNECT IT

Now you will use the problem from the previous page to help you understand how to use different strategies to add.

- 1 Look at **Picture It**. Each number is broken apart into hundreds and tens. What is the total number of hundreds and tens?

..... hundreds and tens

- 2 There are enough tens to make another hundred. Regroup the tens.

11 tens is the same as hundred and ten.

- 3 Now what is the total number of hundreds and tens?

..... hundreds and ten

- 4 How many trading cards do Garcia and Mark have together?

..... + 10 =

- 5 Look at **Model It**. How do the sums in this model match the blocks in **Picture It**?

- 6 Explain how to use place value and regrouping to add three-digit numbers.

7 REFLECT

Look back at your **Try It**, strategies by classmates, and **Picture It** and **Model It**. Which models or strategies do you like best for adding three-digit numbers? Explain.

.....
.....
.....

APPLY IT

Use what you just learned to solve these problems.

- 8 Fill in the sums of the ones, the tens, and the hundreds.
Then add to find the sum.

$$\begin{array}{r} 275 \\ + 216 \\ \hline \end{array}$$

..... \longrightarrow 5 ones + 6 ones

..... \longrightarrow 7 tens + 1 ten

..... \longrightarrow 2 hundreds + 2 hundreds

..... \longrightarrow sum

- 9 A farm's new milk tank holds 185 more gallons than the old tank. The old tank holds 275 gallons. How many gallons does the new tank hold? Show your work.

Solution

- 10 What is $649 + 184$? Show your work.

Solution

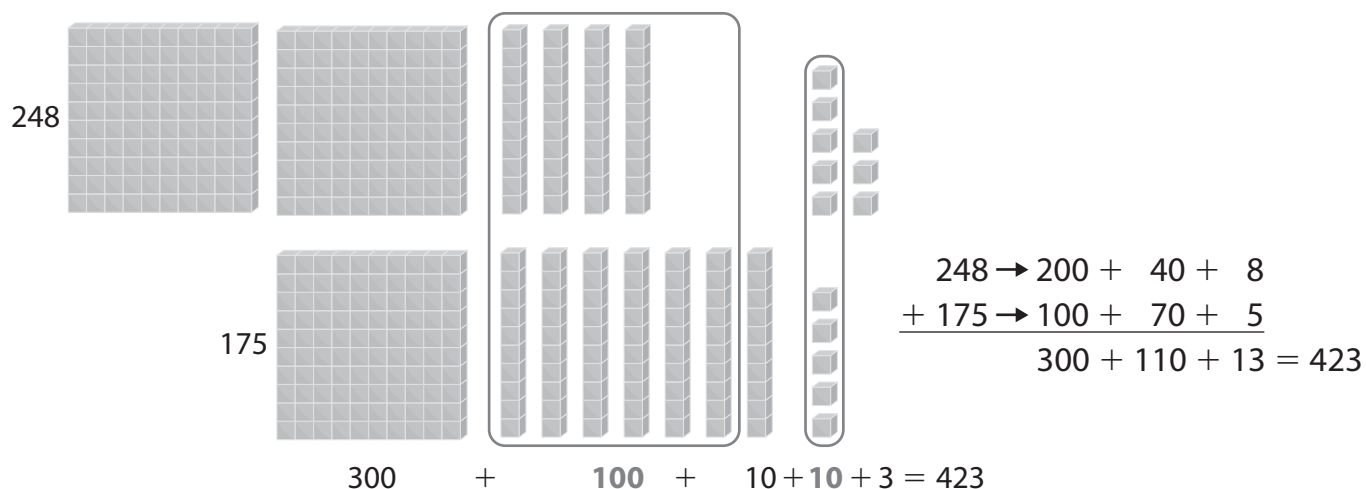
Using Place-Value Strategies to Add Practice Pages

Name: _____

Study the Example showing how to add three-digit numbers. Solve problems 1–6.

EXAMPLE

This week, 248 people came to watch the school play on Tuesday night. 175 people came on Thursday night. How many people came to see the play on these two nights?



423 people came to the play on these nights.

Solve. Fill in the blanks to add.

1 $631 \longrightarrow 600 + \dots\dots\dots + 1$

$+ 368 \longrightarrow \dots\dots\dots + 60 + 8$

$900 + 90 + \dots\dots\dots = \dots\dots\dots$

2 167

$+ 208$

$\dots\dots\dots \longrightarrow 7 \text{ ones} + 8 \text{ ones} = \dots\dots\dots \text{ones, or } \dots\dots\dots \text{ten} + \dots\dots\dots \text{ones}$

$60 \longrightarrow 6 \text{ tens} + 0 \text{ tens} = \dots\dots\dots \text{tens}$

$\dots\dots\dots \longrightarrow 1 \text{ hundred} + 2 \text{ hundreds} = \dots\dots\dots \text{hundreds}$

$\dots\dots\dots$

Using Place-Value Strategies to Add Practice Pages *continued*

Name: _____

- 3 Find $157 + 291$. Show your work.

Solution

- 4 Felice takes 142 photos on vacation. Her mother takes 382. How many photos did they take in all? Show your work.

Solution

- 5 Use estimating to check your answer to problem 4.

Round 142 to the nearest hundred. Round 382 to the nearest hundred.

..... + =

Is your answer to problem 4 reasonable? Explain.

- 6 Use two of the numbers in the box to make the greatest possible sum. Then use two of the numbers to make the least possible sum. Explain how you got your answers.

348	256	289	361
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Using Place-Value Strategies to Subtract

Name: _____

Read and try to solve the problem below.

**Catalina records the weather for 365 days. It is sunny
186 days. How many days are not sunny?**

TRY IT



Math Toolkit

- base-ten blocks
- hundreds place-value charts
- number lines

Using Place-Value Strategies to Subtract

continued

Name: _____

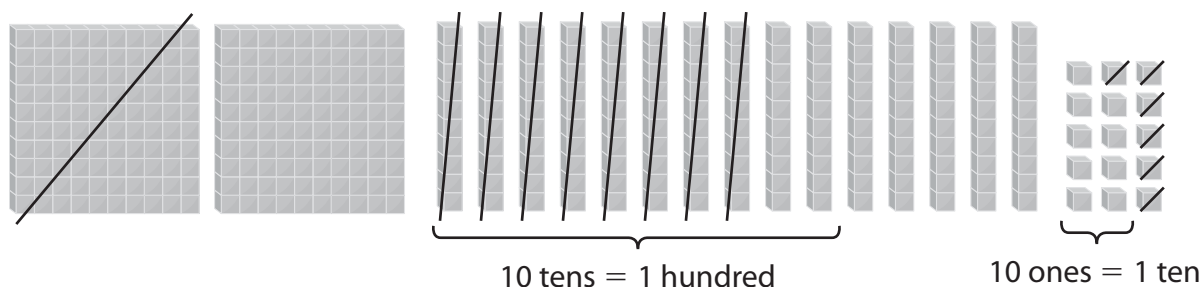
Explore different ways to understand subtracting three-digit numbers.

Catalina records the weather for 365 days. It is sunny 186 days.
↓ **How many days are not sunny?**

PICTURE IT

You can use base-ten blocks to subtract three-digit numbers.

This model shows $365 - 186$. All the blocks show 365. One ten and one hundred are regrouped. The blocks crossed out show 186.



Blocks that are left: 1 hundred + 7 tens + 9 ones

MODEL IT

You can also break apart by place value to subtract three-digit numbers.

$$\begin{aligned} 365 &= 3 \text{ hundreds} + 6 \text{ tens} + 5 \text{ ones} \\ &= 3 \text{ hundreds} + 5 \text{ tens} + 15 \text{ ones} \\ &= \mathbf{2 \text{ hundreds} + 15 \text{ tens} + 15 \text{ ones}} \end{aligned}$$

$$186 = 1 \text{ hundred} + 8 \text{ tens} + 6 \text{ ones}$$

Subtract ones, tens, and hundreds.

$$15 \text{ ones} - 6 \text{ ones} = 9 \text{ ones}$$

$$15 \text{ tens} - 8 \text{ tens} = 7 \text{ tens}$$

$$2 \text{ hundreds} - 1 \text{ hundred} = 1 \text{ hundred}$$

Combine these differences.

$$1 \text{ hundred} + 7 \text{ tens} + 9 \text{ ones}$$

CONNECT IT

Now you will use the problem from the previous page to help you understand how to use different strategies to subtract.

$$365 - 186 = \square$$

Step 1:	$365 = 300 + 60 + 5$	$186 = 100 + 80 + 6$
Step 2:	$= 300 + 50 + 15$	$= 100 + 80 + 6$
Step 3:	$= 200 + 150 + 15$	$= 100 + 80 + 6$

- 1 Look at 365 in Step 1. Can you subtract ones from ones, tens from tens, and hundreds from hundreds?

- 2 Explain the regrouping used to go from Step 1 to Step 2.

Explain the regrouping used to go from Step 2 to Step 3.

- 3 Subtract each place:

$$200 - 100 = \dots\dots\dots \quad 150 - 80 = \dots\dots\dots \quad 15 - 6 = \dots\dots\dots$$

Now find what is left by adding the three differences.

How many days are not sunny?

- 4 Explain how to subtract three-digit numbers when you need to regroup twice.

5 REFLECT

Look back at your **Try It**, strategies by classmates, and **Picture It** and **Model It**. Which models or strategies do you like best for subtracting three-digit numbers? Explain.

.....

.....

.....

Using Place-Value Strategies to Subtract

continued

Name: _____

APPLY IT

Use what you just learned to solve these problems.

- 6 Find $362 - 125$. Show your work.

Solution

- 7 Ellie is reading a book with 853 pages. Over the weekend, she reads 146 pages. How many more pages does she need to read to finish the book?

- Ⓐ 670 pages
- Ⓑ 703 pages
- Ⓒ 707 pages
- Ⓓ 713 pages

- 8 Find $425 - 289$. Show your work.

Solution

Using Place-Value Strategies to Subtract Practice Pages

Name: _____

Study the Example showing how place value can help you subtract three-digit numbers. Then solve problems 1–5.

EXAMPLE

The balloon artist at the fair sold 253 balloons. Of those, 129 were monster heads. How many balloons were not monster heads?

Find $253 - 129$.

$$253 = 2 \text{ hundreds} + 5 \text{ tens} + 3 \text{ ones}$$

$$\text{or } 2 \text{ hundreds} + 4 \text{ tens} + 13 \text{ ones}$$

$$129 = 1 \text{ hundred} + 2 \text{ tens} + 9 \text{ ones}$$

$$253 - 129 = 1 \text{ hundred} + 2 \text{ tens} + 4 \text{ ones}$$

124 balloons were not monster heads.

- 1** Fill in the blanks to find $352 - 147$.

$$352 = \dots\dots\dots \text{hundreds} + \dots\dots\dots \text{tens} + \dots\dots\dots 2 \text{ ones}$$

$$\text{or } \dots\dots\dots \text{hundreds} + \dots\dots\dots 4 \text{ tens} + \dots\dots\dots \text{ones}$$

$$147 = \dots\dots\dots \text{hundred} + \dots\dots\dots 4 \text{ tens} + \dots\dots\dots \text{ones}$$

$$\text{Subtract: } \dots\dots\dots \text{hundreds} + 0 \text{ tens} + \dots\dots\dots \text{ones}$$

$$352 - 147 = \dots\dots\dots$$

- 2** Fill in the blanks to find $459 - 260$.

$$459 = \dots\dots\dots \text{hundreds} + \dots\dots\dots \text{tens} + \dots\dots\dots 9 \text{ ones}$$

$$\text{or } \dots\dots\dots 3 \text{ hundreds} + \dots\dots\dots 15 \text{ tens} + \dots\dots\dots \text{ones}$$

$$260 = \dots\dots\dots \text{hundreds} + \dots\dots\dots \text{tens} + \dots\dots\dots \text{ones}$$

$$\text{Subtract: } \dots\dots\dots \text{hundreds} + \dots\dots\dots \text{tens} + \dots\dots\dots \text{ones}$$

$$459 - 260 = \dots\dots\dots$$

Using Place-Value Strategies to Subtract Practice Pages *continued*

Name: _____

- 3 Fill in the blanks to find $905 - 425$.

$$905 = \dots\dots\dots + \quad 0 \quad + 5$$

$$\text{or } \dots\dots\dots + \quad 100 \quad + 5$$

$$425 = \dots\dots\dots + \dots\dots\dots + 5$$

Subtract hundreds: $\dots\dots\dots$

Subtract tens: $\dots\dots\dots$

Subtract ones: $\dots\dots\dots$

$$905 - 425 = \dots\dots\dots$$

Subtract. Regroup if needed.

- 4 Find $252 - 136$. Show your work.

Solution

- 5 Find $636 - 158$. Show your work.

Solution