Name: _____

Read and try to solve the problem below.

Ryan has a collection of 284 shells. What is another way to write 284 using numbers? What is another way to write 284 using words?

TRY IT

Math Toolkit
• base-ten blocks
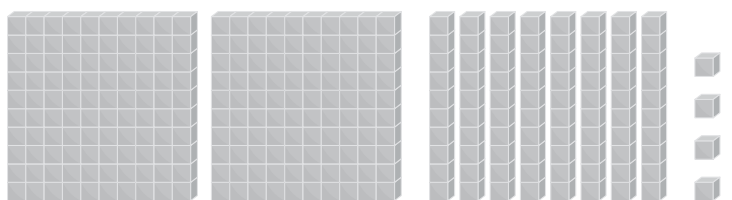• hundreds place-value charts
• 200 charts
• open number lines

Explore different ways to understand writing
three-digit numbers.

> **Ryan has a collection of 284 shells. What is another way to write 284 using numbers? What is another way to write 284 using words?**

PICTURE IT

You can use base-ten blocks to show hundreds, tens, and ones. Then write the number in expanded form and in words.

$$200 \quad + \quad 80 \quad + \quad 4$$

two hundred   eighty   four

MODEL IT

You can show hundreds, tens, and ones in a chart.
Then write the values in numbers and words.

Hundreds	Tens	Ones
2	8	4

2 hundreds + 8 tens + 4 ones

two hundred + eighty + four

CONNECT IT

Now you will use the problem from the previous page to help you understand how to write three-digit numbers in different ways.

1 Write the number of Ryan's shells using only digits.

Ryan has .... shells.

2 Look at **Picture It**. Write 284 using words.

3 Look at **Model It**.

a. How many hundreds, tens, and ones are there?

.... hundreds .... tens .... ones

b. Write the number in expanded form to show the total number of shells as an equation.

.... + ... + ... = 284

4 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 writing three-digit numbers? Explain.

....

....

....

APPLY IT

Use what you just learned to solve these problems.

5 There are 361 fish in the large tank at the aquarium. How do you write 361 in word form? Show your work.

Solution ....

6 Ella makes one hundred eighteen friendship bracelets. How would Ella write that number in expanded form? Show your work.

Solution ....

7 How do you write the number shown in the chart using words?

Hundreds	Tens	Ones
5	7	0

Ⓐ five seven zero

Ⓑ fifty-seven

Ⓒ five hundred seventeen

Ⓓ five hundred seventy

Write Three-Digit Numbers Different Ways Practice Pages

Study the Example showing how to write a three-digit number in different ways. Then solve problems 1–6.

EXAMPLE

In a video game, Eduardo scored 753 points.

Write this number three different ways.

Using only digits: 753

Using expanded form:

$700 + 50 + 3$

Using words:

seven hundred + fifty + three =
seven hundred fifty-three

Use the chart below for problems 1–3.

Hundreds	Tens	Ones
3	2	2

1 Write the number using only digits. ....

2 Write the number in expanded form.

.... + ... + ...

3 Write the number using words.

4 There are 225 building bricks in a box.

How would you write 225 in expanded form?

Fill in the chart and then write the answer.

Hundreds	Tens	Ones

Solution ....

5 Helen counts her crayons. She writes the number as 700 + 3.

Write the number using only digits.

Solution ....

Write the number using only words.

Solution ....

6 What are other ways to show each number?

Look at each number shown using only digits.
Draw a line to the expanded form and to the
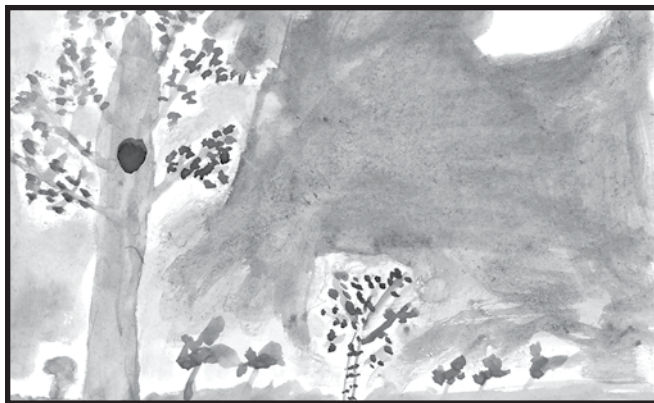words for each number.

500 + 60 + 1   **651**   six hundred fifteen

600 + 10 + 5   **615**   five hundred sixty-one

600 + 50 + 1   **561**   six hundred fifty-one

Name: _____

Read and try to solve the problem below.

These two paintings are in the school art contest.
Which painting has more votes?

Painting A: 467 votes

Painting B: 463 votes

TRY IT

Math Toolkit
• base-ten blocks
• hundreds place-value charts
• blank number lines
• hundred charts

Name: _____

Explore more ways to understand comparing three-digit numbers.

These two paintings are in the school art contest. Which painting has more votes?

Painting A: 467 votes

Painting B: 463 votes

PICTURE IT

You can show the numbers in a quick drawing.

467 □ □ □ □ ||||||| ∴∴

463 □ □ □ □ ||||||| ⋮

MODEL IT

You can model the numbers in a chart.

Hundreds	Tens	Ones
4	6	7
4	6	3

Name: _____

CONNECT IT

Now you will use the problem from the previous page to help you understand more ways to compare three-digit numbers.

1 Which place do you need to look at to compare the numbers of votes? Why?

2 Complete two different comparisons of 467 and 463.

………….. > …………..   ………….. < …………..

3 Why can 467 and 463 be compared two ways?

4 Which painting has more votes? How do you know?

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 comparing three-digit numbers in different ways? Explain.

………

………

APPLY IT

Use what you just learned to solve these problems.

6 Write > or < to compare each pair of numbers.

a. 264 ◯ 462   **b.** 372 ◯ 379   **c.** 954 ◯ 950

d. 876 ◯ 867   **e.** 718 ◯ 788   **f.** 653 ◯ 553

7 Write two different ways to compare 772 and 774 using < and >. Show your work.

Solution ....

8 Hope and Sara are collecting pennies. Hope has 189 pennies. Sara has 186 pennies. Which comparisons are correct?

Ⓐ 189 < 186

Ⓑ 186 < 189

Ⓒ 189 > 186

Ⓓ 186 > 189

Ⓔ 186 = 189

Name: _____

Study the Example showing how to compare three-digit numbers. Then solve problems 1–8.

EXAMPLE

Compare 528 and 523.

The hundreds are the same.
The tens are the same.
Compare the ones.

8 ones is greater than 3 ones.

528 > 523 and 523 < 528

Hundreds	Tens	Ones
5	2	8
5	2	3

Ned and Vera are playing a game. Ned has 142 points, and Vera has 147 points.

1 Write the numbers in the chart.

Hundreds	Tens	Ones

2 Complete the comparison of 142 and 147.

……….. > ………..

3 Which place did you have to look at to compare 142 and 147? Why?

Name: _____

4 Complete two different comparisons of 824 and 829.

………… > …………. and …………. < …………

5 Complete two different comparisons of 353 and 351.

………… > …………. and …………. < …………

6 Complete two different comparisons of 675 and 629.

………… > …………. and …………. < …………

7 Write >, <, or = to compare each pair of numbers.

a. 465 ◯ 467   **b.** 392 ◯ 392

c. 885 ◯ 882   **d.** 214 ◯ 312

e. 691 ◯ 691   **f.** 484 ◯ 394

8 Han plays three games. Which game has the greatest score? Which game has the least score? Tell how you know.

Game 1: 328
Game 2: 289
Game 3: 325

Name: _____

Read and try to solve the problem below.

There are 476 rocks and 148 minerals in a museum display. What is the total number of rocks and minerals in the display?

TRY IT

Math Toolkit
- connecting cubes
- base-ten blocks
- number charts
- hundreds place-value mats
- open number lines

Name: _____

Explore more ways to understand adding
three-digit numbers.

> **There are 476 rocks and 148 minerals in a museum display.**
> **What is the total number of rocks and minerals in the display?**

MODEL IT

You can show each number as hundreds, tens, and ones.

$$476 \longrightarrow \textbf{4 hundreds} + \textbf{7 tens} + \textbf{6 ones}$$
$$+\ 148 \longrightarrow \textbf{1 hundred} + \textbf{4 tens} + \textbf{8 ones}$$
$$5 \text{ hundreds} + 11 \text{ tens} + 14 \text{ ones}$$

MODEL IT

You can add hundreds, then tens, then ones.

$$476$$
$$+\ 148$$
$$500 \longrightarrow \textbf{400 + 100}$$
$$110 \longrightarrow \textbf{70 + 40}$$
$$14 \longrightarrow \textbf{6 + 8}$$

500 + 110 + 14

MODEL IT

You can add ones, then tens, then hundreds.

$$476$$
$$+\ 148$$
$$14 \longrightarrow \textbf{6 + 8}$$
$$110 \longrightarrow \textbf{70 + 40}$$
$$500 \longrightarrow \textbf{400 + 100}$$

14 + 110 + 500

CONNECT IT

Now you will use the problem from the previous page to help you understand another way to add.

1 Write the number of ones, tens, and hundreds.

14 = ... ones   110 = ... tens   500 = ... hundreds

2 You can regroup when you have 10 or more ones or 10 or more tens.

Regroup.
Fill in the blanks.

$$\begin{array}{r} 476 \\ +\ 148 \\ \hline \end{array}$$

14 $\longrightarrow$ .... ten and 4 ones
110 $\longrightarrow$ .... hundred and .... ten
500 $\longrightarrow$ 5 hundreds

3 Look at problem 2. Write the total number of ones, tens, and hundreds after regrouping.

.... ones + ... tens + ... hundreds

4 Why should you get the same total when you use different strategies to find 476 + 148?

5 REFLECT

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

....

....

....

Name: _____

APPLY IT

Use what you just learned to solve these problems.

6 What is 649 + 184? Show your work.

Solution ....

7 Find the sum. Show your work.

$$\begin{array}{r} 427 \\ +\ 297 \\ \hline \end{array}$$

Solution ....

8 Explain how you would find the sum 375 + 545.

Name: _____

Study the Example showing how to add hundreds, tens, and ones. Then solve problems 1–5.

> ## EXAMPLE
>
> Find $346 + 487$.
>
> You can add hundreds, then tens, then ones.
>
> $$\begin{array}{r} 346 \\ + 487 \\ \hline \end{array}$$
>
> $700 \longrightarrow 300 + 400$
> $120 \longrightarrow 40 + 80$
> $13 \longrightarrow 6 + 7$
>
> $700 + 120 + 13 = 833$
>
> You can add ones, then tens, then hundreds.
>
> $$\begin{array}{r} 346 \\ + 487 \\ \hline \end{array}$$
>
> $13 \longrightarrow 6 + 7$
> $120 \longrightarrow 40 + 80$
> $700 \longrightarrow 300 + 400$
>
> $13 + 120 + 700 = 833$

Mina's class collects 368 cans to recycle. Willa's class collects 254 cans.

1 Fill in the boxes to show how you can add hundreds, then tens, then ones.

$$\begin{array}{r} 368 \\ + 254 \\ \hline \end{array}$$

☐

110

☐

2 How many cans do the classes collect altogether? Fill in the blanks.

……….. $+ 110 +$ ……….. $=$ ………..

Name: _____

3 Show how to find 579 + 358.

4 Show how you can add 157 and 296.

5 Find the greatest possible sum by using two of the numbers in the box below. Then find the least possible sum. Tell how you solved the problem.

268	275	242	259