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Practicing for Success: STAAR Mathematics Grade 3

This sample includes the following:

Student Book pages (7 pages)
- Cover and Table of Contents
- Guided Practice pages
- Independent Practice pages

To **Create** a World in which **Children** Love to **Learn!**

Practicing for Success STAAR

Student Book

Grade 3

UPDATED for the STAAR REDESIGN

Mathematics

TCM | Teacher Created Materials

Table of Contents

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Compose and Decompose Numbers

Lesson Focus

I can compose or decompose numbers up to 100,000.

1. What does it mean to *compose* or *decompose* a number?

_____

_____

Let's Practice!

Break it Down

Example 1: Write 352 using pictures.

First, we can use hundreds grids to represent the 300.
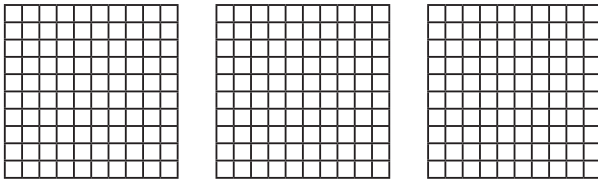
Next, we can use 5 tens rods to represent the 50.
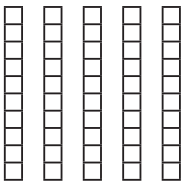
To represent the 2 ones, we could use blocks.

We can represent 352 as:

Example 2: Write 352 in expanded form.

There are 3 hundreds in 352, so we can write 300.

There are 5 tens in 352, so we can write 50.

There are 2 ones in 352, so we can write 2.

In expanded form, 352 can be written as 300 + 50 + 2.

> **What You Need to Know**
>
> To *compose* a number, we add two or more numbers together to create a larger number.
>
> To *decompose* a number, we are breaking a large number down into smaller numbers that we can add together. A number can be expressed as a sum of so many ten thousands, thousands, hundreds, tens, and ones.

> What kind of picture can you draw? What would you use to represent the 3? What about the 5? What would represent the 2?

> How do you write a number in expanded form?

Independent Practice

Directions: Read and solve each problem carefully. Record the correct answer on your answer sheet.

1 Which of the following shows 30,906 written in expanded form?

A 30,000 + 900 + 6

B 3,000 + 900 + 6

C 30,000 + 9 + 6

D 30,000 + 9,000 + 600

2 In the United States, one person uses about 152 gallons of water each day. Which of the following expressions shows 152?

A 100 + 5 + 2

B 1 + 5 + 2

C 100 + 50 + 20

D 100 + 50 + 2

3 Which answer choice does NOT describe the number 6,120?

A The sum of 6 thousands and twelve tens

B The sum of 6 thousands, one hundred, and twenty tens

C The sum of 6 thousands, one hundred, and 2 tens

D The sum of 6 thousands, one hundred, and twenty ones

4 Which of the following pictures represents 123?

A

B

C

D
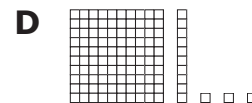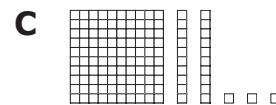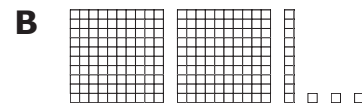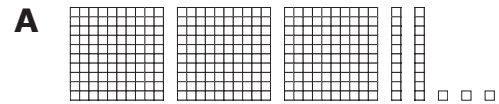
5 What number is equivalent to the expression 40 + 3 + 500 + 3000?

A 4,353

B 5,343

C 3,543

D 35,435

6 Expanded notation of a number is shown.

$(8 \times 10,000) + (6 \times 100) + (2 \times 10)$

What is the standard form of this number?

A 80,620

B 80,602

C 86,420

D 6,280

Base Ten

Lesson Focus

I can explain the relationship between numbers and their place value up to one hundred-thousand.

1. What is *place value*?

   _____

   _____

   _____

   _____

Let's Practice!

What You Need to Know

Place value is the value of each digit in a number.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
				5	9	2

÷10 ÷10 ×10 ×10

In the number 592, there are 5 hundreds, 9 tens, and 2 ones.

Each place value position is 10 times the place to the right and $\frac{1}{10}$ of the place to the left.

How are Numbers Related?

What is the relationship between the thousands place and the hundreds place in the number 5,523?

The number in the hundreds place is a 5. There are 5 hundreds (500) in the number.
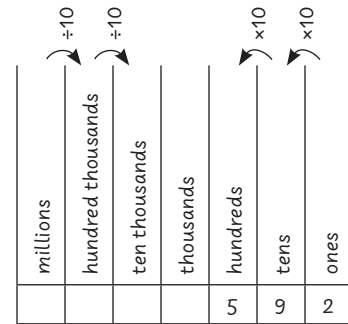
The number in the thousands place is also a 5, so this represents 5,000 in the number.

Because 5,000 is ten times greater than 500, we know that the number in the thousands place is ten times the number in the hundreds place.

> What number is in the thousands place? What number is in the hundreds place?

Independent Practice

Directions: Read and solve each problem carefully. Record the correct answer on your answer sheet.

1 What is the relationship between the thousands and hundreds place in the number 863,322?

    A   The hundreds place is 10 times greater than the thousands place.

    B   The tens place is equal to the ones place.

    C   The thousands place is 10 times greater than the hundreds place.

    D   The hundreds place is 100 times greater than the ones place.

2 Which of the following statements is true?

    A   100 is the same as 10 ones.

    B   1,000 is the same as 10 hundreds.

    C   10 is the same as 10 tens.

    D   1,000 is the same as 10 tens.

3 Which digit is in the thousands place in the number 95,620?

    A   5,000

    B   90

    C   5

    D   50

4 What is the relationship between the number in the ten thousands place and the number in the thousands place in the number 88,653?

    A   The ten thousands place is 10 times greater than the thousands place.

    B   The ones place is 10 times greater than the tens place.

    C   The thousands place is 10 times greater than the ten thousands place.

    D   The hundreds place is 100 times greater than the tens place.

5 Which digit is in the hundred thousands place in the number 941,638?

    A   40,000

    B   9

    C   600

    D   1,000

6 What is the relationship between the number in the tens place and the number in the hundreds place in the number 4,332?

    A   The number in the tens place is 10 times greater than the hundreds place.

    B   The number in the thousands place is 10 times greater than the tens place.

    C   The number in the hundreds place is 10 times greater than the tens place.

    D   The number in the tens place is 100 times greater than the ones place.