

What is place value?

Place value is the value of a digit depending on its **location in a number**. Each place value has a number from 1 to 9. We count up to 9 in each place, and when we get to 10 we move into the next place value.

That means that **the place value to the left of the digit is 10 x larger than the digit to its right**. And that means **the place value to the right of the digit is 10 x smaller than the digit to its left**.

We start with ones and count up to 9, and then we move on to tens. That means there are 10 ones in 1 ten. And that 1 ten is 10 times bigger than 1.

For example, there are 10 tens in 1 hundred, so that means that **100 is ten times bigger than 10 ($10 \times 10 = 100$)**

That also means that

10 is 10 times smaller than 100 ($100 \div 10 = 10$)

Name: _____ Period: _____ Date: _____

Place Value of Whole Numbers Guided Notes

Math 4

10 Ones = 1 x 10 = 1 Ten

10 Tens = 10 x 10 = 1 Hundred

10 Hundreds = 10 x 100 = 1 Thousand

10 Thousands = 10 x 1,000 = 1 Ten Thousand

10 Ten Thousands = 10 x 10,000 = 1 Hundred Thousand

10 Hundred Thousands = 10 x 100,000 = 1 Million



Notice that the digit **2** has a different value in the number **234,567** and **43,291**.

In **2,468**, the **2** represents **2,000**. In **43,291**, the **2** represents **200**.

Name: _____ Period: _____ Date: _____

Place Value of Whole Numbers

Guided Notes

Math 4

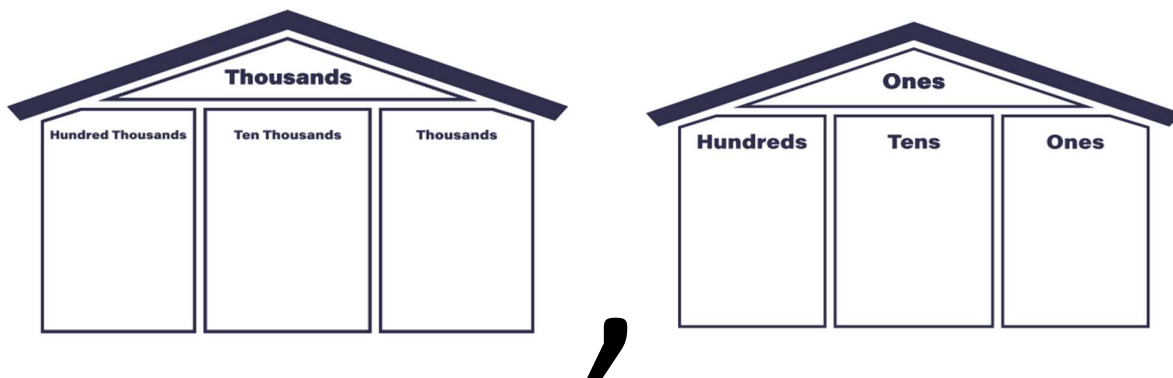
Put the number 325,698 in the houses.



Time to Think

1. Would you rather have 5 ones or 5 hundreds? Why?
2. How many tens are in one thousand?

Draw a one-dollar bill in the place value chart.



Name: _____ Period: _____ Date: _____

Place Value of Whole Numbers

Guided Notes

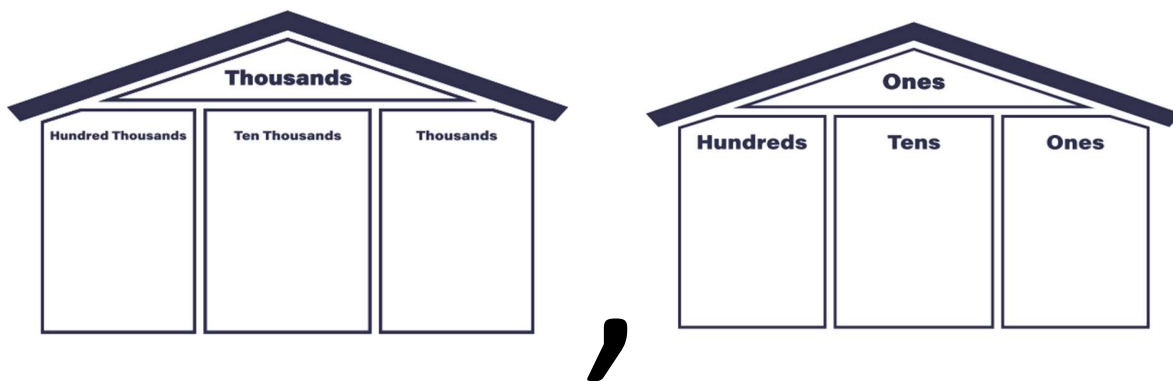
Math 4

Now draw nine more one-dollar bills in the place value chart.

What larger unit can I make?

When we exchange the ten ones for a _____, the _____ becomes _____ times as large.

Draw a ten-dollar bill in the place value chart.



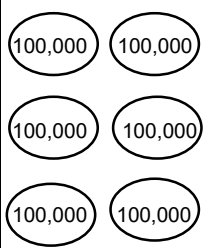
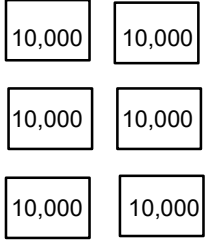
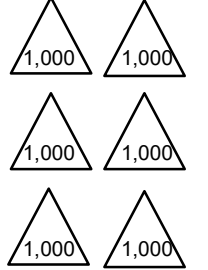
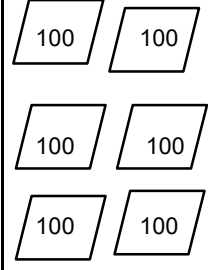
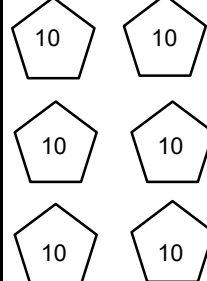
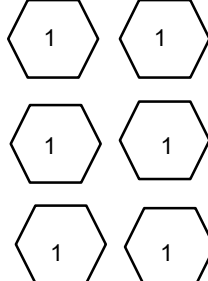
Now draw nine more ten-dollar bills in the place value chart.

What larger unit can I make?

When we exchange the ten ten-dollar bills for a _____, the _____ becomes _____ times as large.

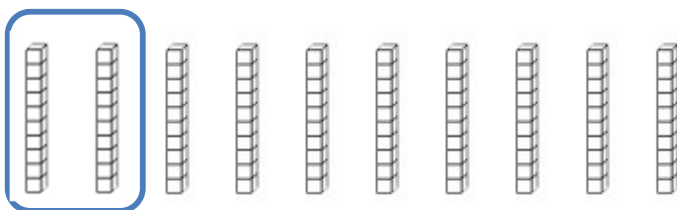
465,312

Shade in the place value shapes and complete the table below to represent the number.

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
					

Time to think:

Using the base ten blocks below, circle four groups of 2 ten blocks. The first one is done for you. Then complete the multiplication statement.

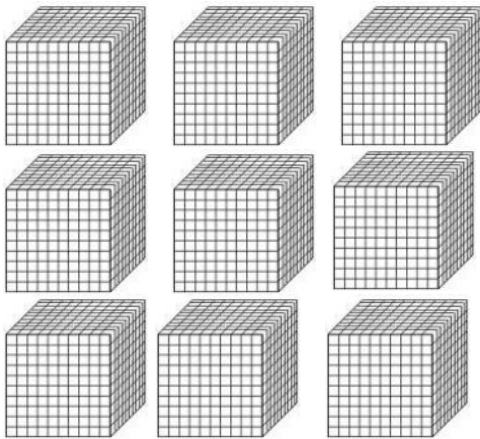


$4 \times 20 = \underline{\hspace{2cm}}$

Time to think

What do you notice about the multiplication statement and the answer? Write a sentence.

Using the hundred blocks below, circle three groups of 2 hundreds blocks. Then complete the multiplication statement.



$3 \times 200 = \underline{\hspace{2cm}}$

Time to think

What do you notice about the multiplication statement and the answer? Write a sentence.

