

What is place value?

- ✓ Place value tells us the value of a digit based on its position in a number.
- ✓ Each digit has a different value based on its place.
- ✓ In our base-10 system, each place is 10 times greater than the place to its right.

Thousands	Hundreds	Tens	Ones
5	3	7	2
5 thousands	3 hundreds	7 tens	2 ones
5,000	300	70	2

Expanded Form

- ✓ Expanded form shows the value of each digit.
- ✓ It explains how a number is built using place value.
- ✓ Expanded form uses addition to combine the value of each digit to make the total (sum).

Examples:

$$2,984 = 2,000 + 900 + 80 + 4$$

$$7,615 = 7,000 + 600 + 10 + 5$$

$$8,380 = 8,000 + 300 + 80 + 0$$

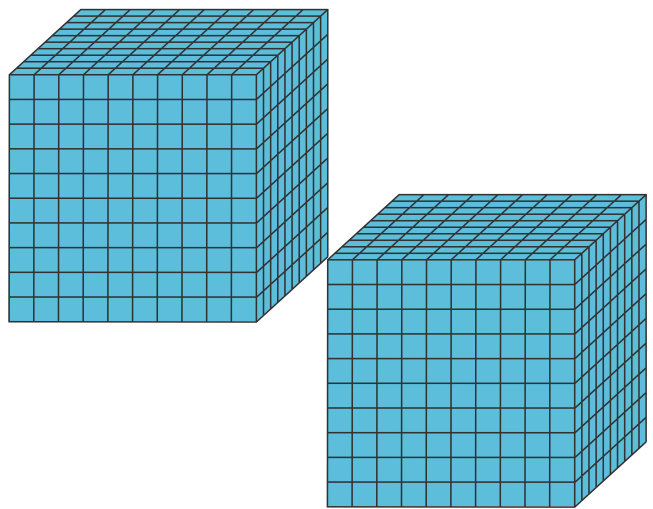
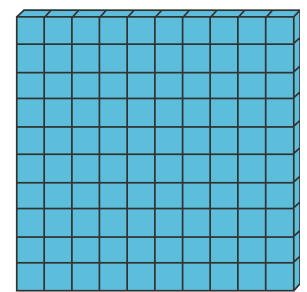
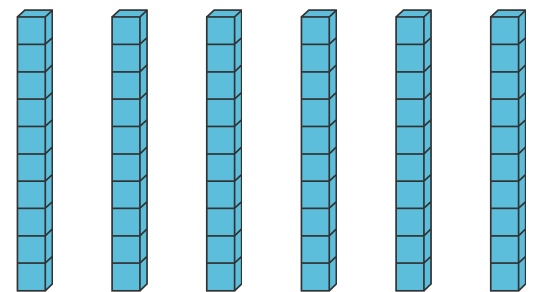
$$5,072 = 5,000 + 70 + 2$$

$$3,196 = 3,000 + 100 + 90 + 6$$

$$4,432 = 4,000 + 400 + 30 + 2$$

Model Form

- ✓ Base-10 models help represent numbers using thousands, hundreds, tens, and ones.

Thousands	Hundreds	Tens	Ones
2	1	6	3
			

Common Misconceptions

- ✓ The value of a digit depends on its place in a number.
- ✓ The same digit can have different values in different numbers.
- ✓ Compare the underlined digits in each number below. What do you notice about each digit's value? How does it change across the numbers?

6,248

4,682

2,468

Find the Value

Identify the value of the underlined digit in each number below. Use the place value chart if needed.

4,372

829

6,705

Thousands	Hundreds	Tens	Ones

How did you do?

Identify the value of the underlined digit in each number below. Use the place value chart if needed.

4,372

4 thousands
4,000

829

2 tens
20

6,705

7 hundreds
700

Thousands	Hundreds	Tens	Ones

Write in Expanded Form

Type each number in expanded form.

$$463 = \boxed{} + \boxed{} + \boxed{}$$

$$3,618 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

$$945 = \boxed{} + \boxed{} + \boxed{}$$

$$7,752 = \boxed{} + \boxed{} + \boxed{} + \boxed{}$$

How did you do?

Type each number in expanded form.

$$463 = \boxed{400} + \boxed{60} + \boxed{3}$$

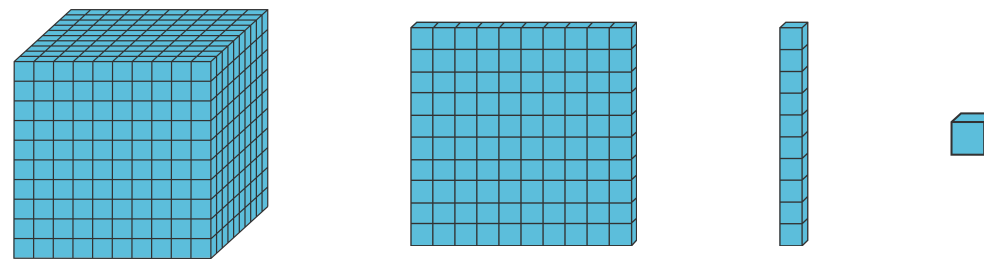
$$3,618 = \boxed{3,000} + \boxed{600} + \boxed{10} + \boxed{8}$$

$$945 = \boxed{900} + \boxed{40} + \boxed{5}$$

$$7,752 = \boxed{7,000} + \boxed{700} + \boxed{50} + \boxed{2}$$

Base-10 Model Numbers

Copy and paste the base-10 blocks to show each number below.

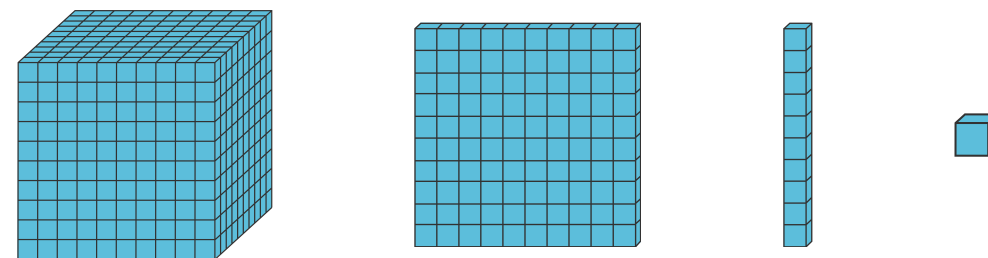


2,435

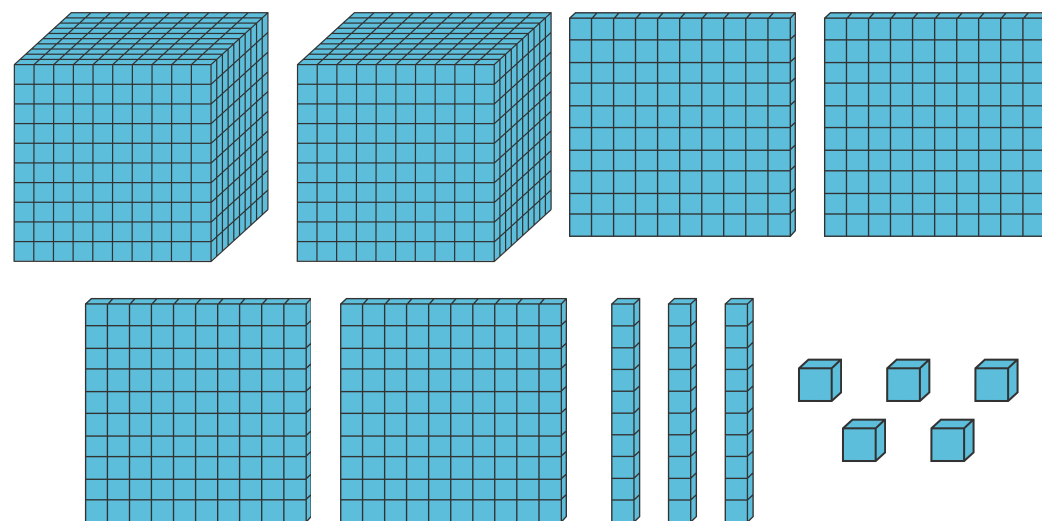
1,677

How did you do?

Copy and paste the base-10 blocks to show each number below.



2,435



1,677

