

Understand Three-Digit Numbers

Think It Through

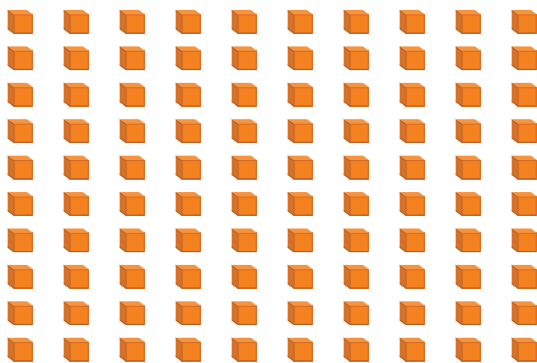
What is **one hundred**?



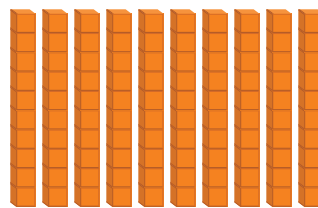
You can count to one hundred. After 99 is **100**.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Think One hundred is 100 ones. One hundred is 10 tens.



$100 = 100 \text{ ones}$



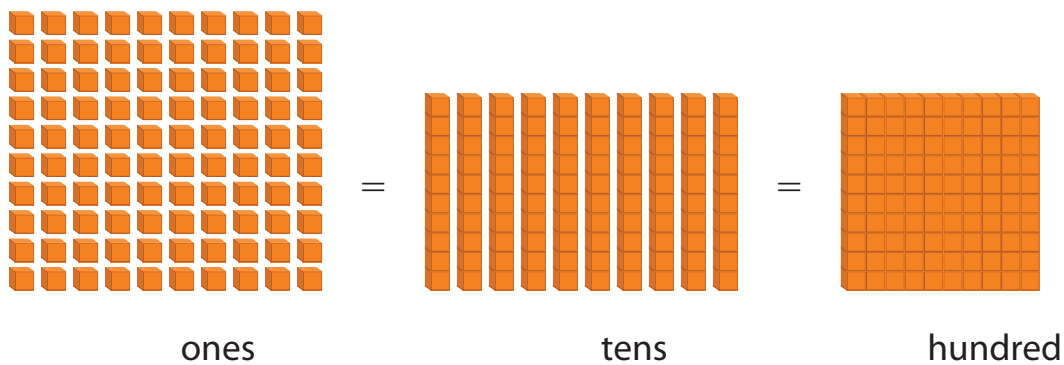
$100 = 10 \text{ tens}$



Circle groups of 10 ones in 100.

Think One hundred can be shown as hundreds, tens, or ones.

 Fill in the blanks.



Ways to Show 100			
Hundreds	Tens	Ones	
0	0	100	0 hundreds + 0 tens + 100 ones
0	10	0	0 hundreds + 10 tens + 0 ones
1	0	0	1 hundred + 0 tens + 0 ones



100
↑
hundreds place

A three-digit number has a hundreds place. It tells how many hundreds there are in a number.

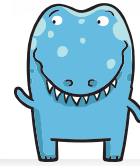
► **Reflect** Work with a partner.

1 Talk About It Think about 200. How many hundreds does 200 have? How many tens? How many ones?

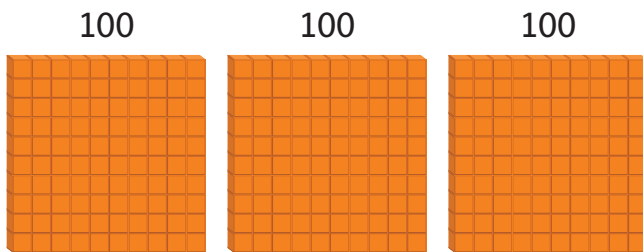
Write About It _____

Think About **Hundreds, Tens, and Ones**

Let's Explore the Idea You can count three-digit numbers by hundreds, tens, and ones.



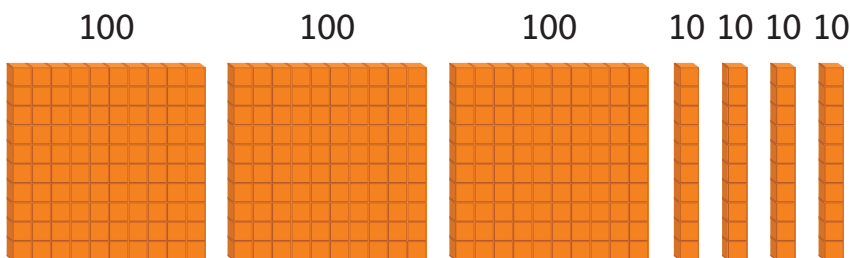
You can count hundreds.



2 Count: 1 hundred, 2 hundreds, ____ hundreds

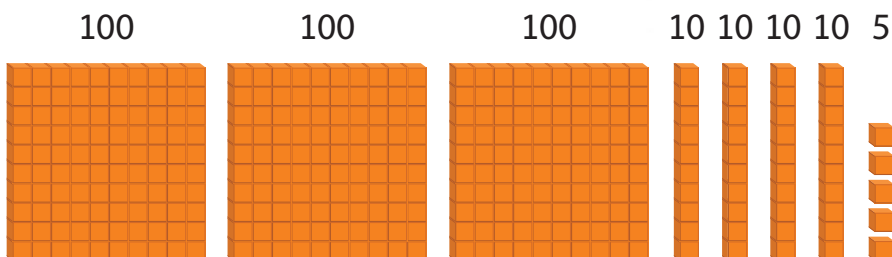
3 ____ hundreds = 300

You can count hundreds and tens.



4 ____ hundreds + ____ tens = $300 + 40 = 340$

You can count hundreds, tens, and ones.



5 ____ hundreds + ____ tens + ____ ones = $300 + 40 + 5 = 345$

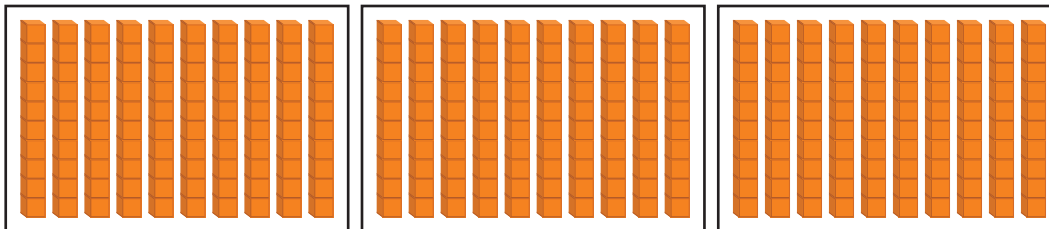


Let's Talk About It

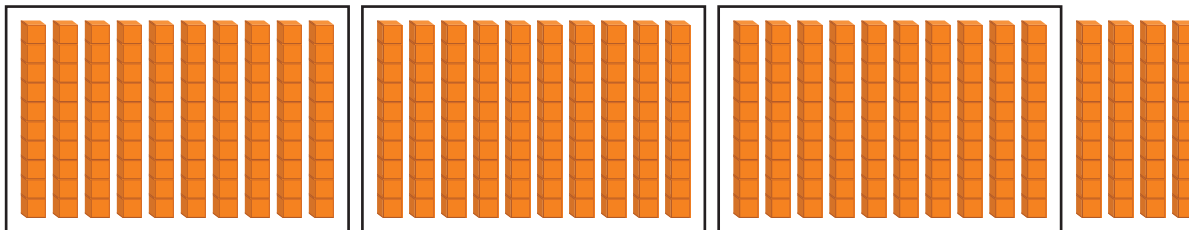
Work with a partner.



6 This model shows 300 in tens. $300 = \underline{\hspace{2cm}}$ tens

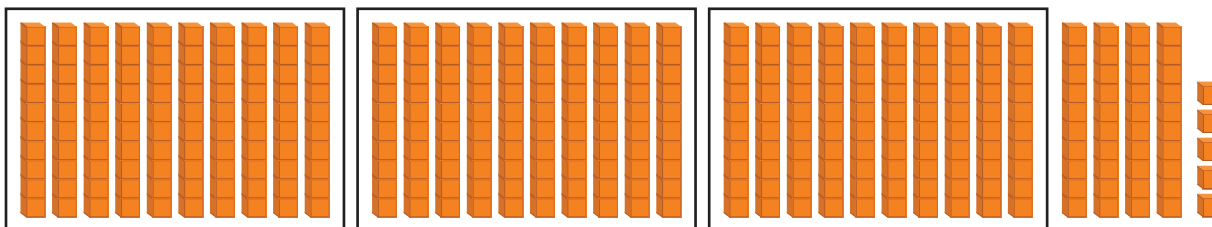


7 This model shows 340 in tens. $340 = \underline{\hspace{2cm}}$ tens



8 This model shows 345 in tens. There are ones left over.

$345 = \underline{\hspace{2cm}}$ tens and $\underline{\hspace{2cm}}$ ones



► **Try It Another Way** Write hundreds, tens, and ones in a chart.

Example

3 hundreds + 5 tens + 8 ones

Hundreds	Tens	Ones
3	5	8

9 5 hundreds + 3 tens

Hundreds	Tens	Ones

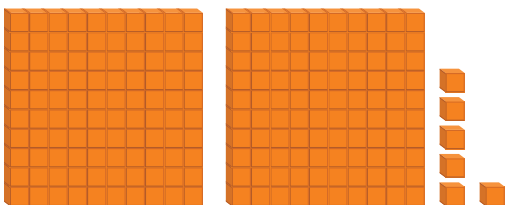
10 7 hundreds + 8 ones

Hundreds	Tens	Ones

Connect**Ideas About Place Value in Three-Digit Numbers**

Talk about these questions as a class. Then write your answers.

- 11 Evaluate** Lana did this homework problem.
What did she do wrong?



$$2 \text{ hundreds} + 6 \text{ ones} = 26$$

- 12 Analyze** Look at how Sam and Lev wrote 572.
Explain what each person did.

Sam $572 = 57 \text{ tens} + 2 \text{ ones}$

Lev $572 = 5 \text{ hundreds} + 7 \text{ tens} + 2 \text{ ones}$

- 13 Identify** Fill in the blanks to show 256 in different ways.

Hundreds	Tens	Ones
0	0	
0		6
	5	

Apply**Ideas About Place Value in Three-Digit Numbers****Put It Together** Use what you have learned to complete this task.

- 14** Nate puts his coins in stacks of ten. He has 12 stacks of coins with 4 coins left over.

Part A Draw a picture to show Nate's coins.

Part B How many coins does Nate have? Write the answer in two different ways.

Part C Nate gets 30 more coins from a friend. Nate says that he now has 190 coins. Do you agree or disagree? Explain.
