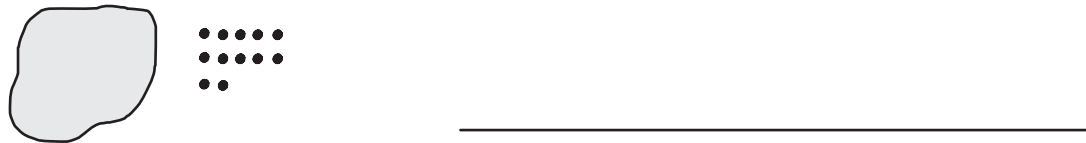# More Base-Ten Shorthand

✓ Check-In: Questions 1–2

1. Joe showed several ways of writing 32 Chocos by using base-ten shorthand. Some of Joe's work was smudged. Write what is missing in the smudged gray area. You may use base-ten pieces to help find the answers. Use base-ten shorthand to sketch your answer. The first one is an example.

Ex. Write what is missing in the gray area to show 32 with base-ten shorthand. Write a number sentence to match the pieces.

Here is what Joe thinks. "There are 12 bits showing. That means 20 is missing, because 32 – 12 = 20. I write 20 using base-ten shorthand in the gray area. Now it shows 32." Here is what Joe writes.

$$20 + 12 = 32$$
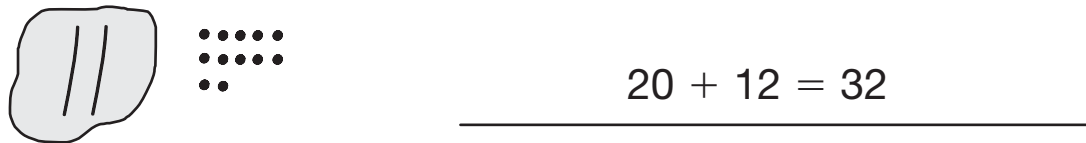
A. Here is another way to show 32. Fill in the gray area and write a number sentence to match the pieces.
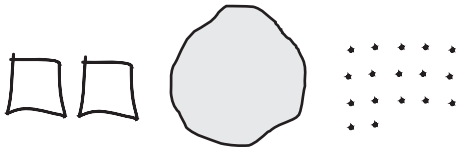
_____

B. Here is a third way to show 32. Fill in the gray area and write a number sentence to match the pieces.
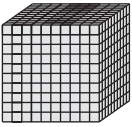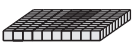
_____

2. Rhonda made 267 pieces of candy. Her work got smudged also.
For each problem:

- Write the missing information in the gray areas using base-ten
  shorthand and the *Base-Ten Recording Sheet*.

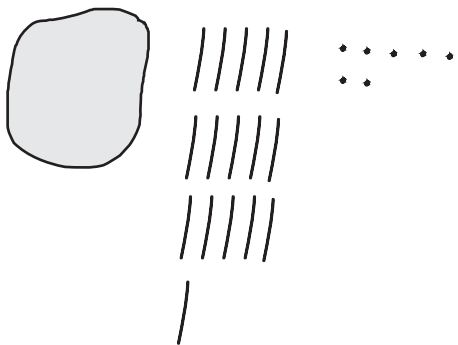- Write a number sentence to match the pieces.
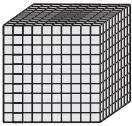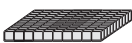
A. Here is one way to make 267.

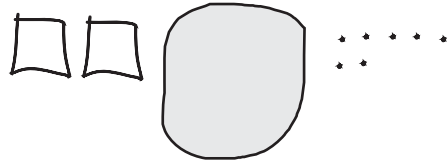**Base-Ten Recording Sheet**

1000s	100s	10s	1s
	2		17

B. Here is another way to show 267.
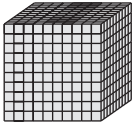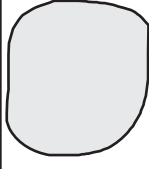
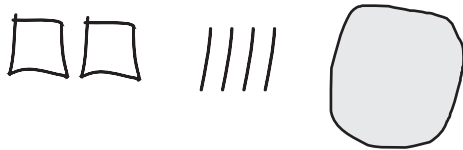**Base-Ten Recording Sheet**

1000s	100s	10s	1s
	16	7	

C. Here is a third way to show 267.
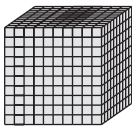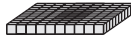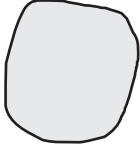
Base-Ten Recording Sheet
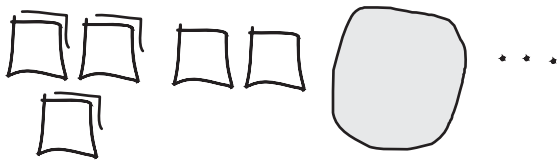
1000s	100s	10s	1s
	2		7

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D. Here is yet another way to show 267.
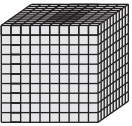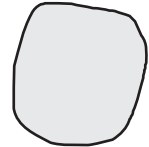
Base-Ten Recording Sheet

1000s	100s	10s	1s
	2	4	

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E. Here is a way to show 3303.

Base-Ten Recording Sheet

1000s	100s	10s	1s
3	2		3

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