



# Different Ways to Decompose

Let's compare different ways to subtract.

## Warm-up

### Number Talk: Multiples of 10

Find the value of each expression mentally.

- $18 + 10 + 10$

- $18 + 20 + 10$

- $38 - 20$

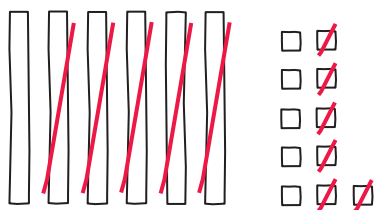
- $48 - 30$

## Activity 1

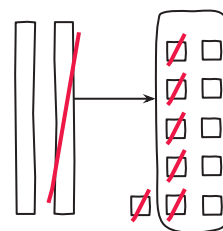
### Aren't You Missing Something?

Lin and Clare make base-ten diagrams. They find the value of  $71 - 56$ .

Lin



Clare



1. What do you notice about their work? What do you wonder?

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2. Lin and Clare write equations to show their thinking. Which group of equations matches Lin's work? Which group matches Clare's work? Explain your reasoning.

A

$$71 - 50 = 21$$

$$21 = 10 + 11$$

$$11 - 6 = 5$$

$$10 + 5 = 15$$

B

$$71 = 60 + 11$$

$$11 - 6 = 5$$

$$60 - 50 = 10$$

$$10 + 5 = 15$$

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3. How are Lin's and Clare's methods alike? How are they different?

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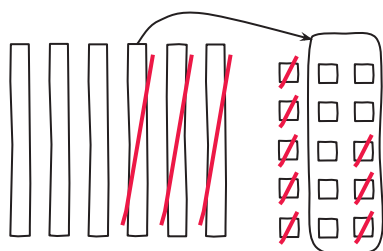
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## Activity 2

### Different Ways to Decompose

Andre finds the value of  $65 - 28$ . He makes a base-ten diagram and writes equations to show his thinking.



$$\begin{aligned}65 - 28 \\65 - 20 &= 45 \\45 &= 30 + 15 \\15 - 8 &= 7 \\30 + 7 &= 37\end{aligned}$$

1. Do you think Andre's method is more like Clare's or Lin's method? Explain your reasoning.

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2. Find the value of each difference. Show your thinking using drawings, numbers, or words.

a.  $34 - 18$

b.  $82 - 37$

c.  $71 - 53$

