

# What is found in an Engaging Mathematics TEKS-based activity?

Each activity addresses a specific student expectation that is reflected in the content objective.

Common classroom materials are used for ease of preparation. Page titles for student handouts and activity masters are represented with bold font.

## Composing and Decomposing Numbers, Activity 5 1(2)(B)

### Activity Objective

I can compose and decompose numbers.

### Materials

- Composing Numbers

### Teacher Directions

- Prompt students to circle the sets of values that can be composed to represent the same value as the set of beans shown on **Composing Numbers**.
- Communicating about Mathematics:** Prompt students to choose one of the sets of values not circled in Set B and describe how they know the value does not represent the same value as the set of beans using the sentence stems.

### Debriefing Questions

- How can you decompose numbers?
- Why can a number be decomposed in more than one way?

### Listen For . . .

- Appropriate decomposition of the numbers into groups of tens and ones.*
- Understanding that numbers can be decomposed into groups of tens and ones in more than one way.*

### Answers

#### Set A:

$70 + 2$	$70 + 10 + 2$
$60 + 10 + 1 + 1$	$60 + 10 + 2$

#### Set B:

$20 + 20 + 5$	$40 + 5$
$4 + 5$	$30 + 10 + 2 + 3$

I did not circle  $4 + 5$ .

I know these values equal 9, so it is not the same value as the set of beans because *the set of beans has a value of 45*.

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Directions are included to guide student completion of activities with multiple steps.

Each activity includes an opportunity for students to articulate and summarize aspects of their learning using drawings, words, numbers, or symbols.

Debriefing questions are provided for teacher use when supporting student thinking and discourse.

An answer key is included for each activity, when appropriate.

Name: \_\_\_\_\_

### Composing Numbers

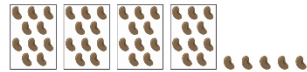
Circle the sets of values that can be composed to represent the same value as the set of beans.

#### Set A:



$70 + 2$	$70 + 10 + 2$
$60 + 10 + 1 + 1$	$60 + 10 + 2$

#### Set B:



$20 + 20 + 5$	$40 + 5$
$4 + 5$	$30 + 10 + 2 + 3$

I did not circle \_\_\_\_\_.

I know these values equal \_\_\_\_\_, so it is not the same value as the set of beans because . . .

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# Engaging Mathematics, Volume I: Grade 1

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