

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. Materials are listed 1-per-student unless otherwise noted. Page titles for student handouts are represented with bold font.

Directions are included as a separate document to guide student completion of activities with multiple steps.

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

Composing and Decomposing Numbers, Activity 3 2(2)(A)

Activity Objective
I can compose and decompose numbers.

- Materials**
- **Directions: Decomposing a Number**
 - **Decomposing a Number**
 - Base-ten blocks

- Facilitation Questions**
- How can you use the least number of hundreds, tens, and ones to represent 475?
I can use four flats, seven rods, and five units.
 - How can you use the base-ten blocks to show decomposing four hundreds? Seven tens? Five ones?
I can decompose the four hundreds into two or more groups.
 - How can you use composing to show that you decomposed the value correctly?
I can compose the answer I got, and if it equals 475 then I did it correctly.

Answer
Possible answers:

My Ways to Decompose 475

$200 + 200 + 50 + 20 + 5$	$400 + 20 + 20 + 30 + 2 + 3$

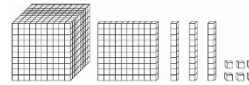
My Partner's Ways to Decompose 475

$200 + 100 + 100 + 20 + 50 + 5$	$300 + 100 + 60 + 10 + 3 + 2$

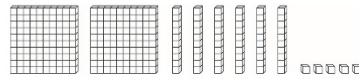
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Composing Numbers

sets of values that can be composed to represent the same base-ten blocks.



$1,000 + 10 + 10 + 10 + 3 + 3$	$1,000 + 10 + 10 + 10 + 3 + 3$
$1,000 + 10 + 20 + 5 + 1$	$1,000 + 100 + 20 + 10 + 4 + 2$



$100 + 100 + 30 + 30 + 5$	$200 + 50 + 10 + 3 + 2$
$100 + 100 + 6 + 5$	$200 + 60 + 4 + 1$

An answer key is included for each activity.

Communicating about Mathematics

Choose one of the sets of values not circled. Explain how you know this value cannot be composed to represent the value of the base-ten blocks.

Each activity includes an opportunity for students to articulate and summarize aspects of their learning.

Engaging Mathematics,
Volume I: Grade 2

Reproducible Activity
Masters and Student Pages

Spanish