

What is *Engaging Mathematics, Volume I: Grade 5*?

1 An instructional resource featuring 78 Texas Essential Knowledge and Skills (TEKS)-based, classroom-ready mathematics activities that each take approximately 10 to 15 minutes to complete. We took the best activities of the original series, refreshing and revising them, and then added new activities where needed to create a complement for *Engaging Mathematics, Volume II*.

2 A TEKS-based resource that addresses the majority of the grade 5 mathematics TEKS. *Engaging Mathematics, Volume I* complements *Engaging Mathematics, Volume II*. Both volumes provide—

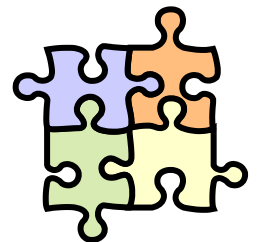
- Rigorous problem-solving tasks;
- Manipulative-based tasks;
- Vocabulary development tasks; and
- Sorting and classifying tasks.

3 A resource that supports high-quality, research-based practices by providing activities that can be used for various purposes, including—

- Engaging warm-ups and opening tasks that draw students into relevant and challenging mathematics;
- Instructional support for all students to help learners articulate, refine, and retain important mathematical concepts, processes, and skills;
- Short-cycle, formative assessments that provide immediate and ongoing feedback to guide instruction for the teacher and learning for the student; and
- Supplemental tasks to support intervention strategies.

4 A resource that incorporates the mathematical process standards by promoting—

- Reasoning, generalizing, and problem-solving in mathematical and real-world contexts;
- Modeling, using tools, and connecting representations;
- Analysis; and
- Communication.



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.

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

Comparing and Ordering Decimals, Activity 2 5(2)(B)

Activity Objective

The student will compare decimal numbers to sort the numbers into a graphic organizer.

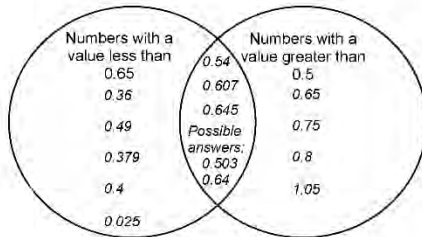
Materials

- **Sorting Numbers**

Facilitation Questions

- How can you use place value to help you sort the numbers?
I can compare the numbers by lining up the decimal points and comparing the digits according to their place values, starting with the digits in the greatest place value position.
- What is true about the numbers that are placed in the overlapping region of the graphic organizer?
These numbers are greater than 0.5 and less than 0.65.
- What is true about the numbers that are not placed inside either circle?
These numbers are either less than or equal to 0.25 or greater than or equal to 1.

Answers



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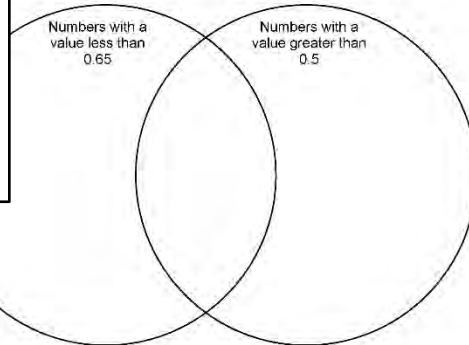
An answer key is included for each activity.

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

Sorting Numbers

Graphic organizer to sort the numbers based on their values. Additional numbers that belong in the overlapping region of the graphic organizer.

0.379	0.607	0.8	0.4	0.025
0.75	0.36	0.54	0.645	0.49



Communicating about Mathematics

How did you determine which numbers to place in the overlapping region of the graphic organizer?
