## Unit 8 Lesson 10: Edge Lengths, Volumes, and Cube Roots

### 1 Ordering Squares and Cubes (Warm up)

#### Student Task Statement

Let , , , , , and be positive numbers.

Given these equations, arrange , , , , , and from least to greatest. Explain your reasoning.

### 2 Card Sort: Rooted in the Number Line

#### Student Task Statement

Your teacher will give your group a set of cards. For each card with a letter and value, find the two other cards that match. One shows the location on a number line where the value exists, and the other shows an equation that the value satisfies. Be prepared to explain your reasoning.

### 3 Cube Root Values

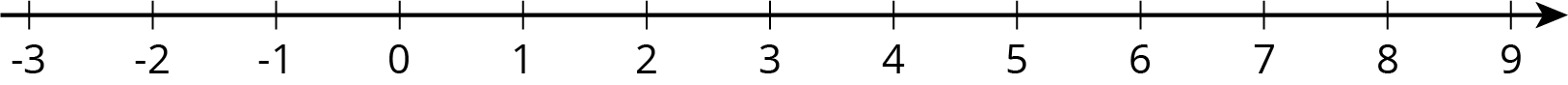
#### Student Task Statement

What two whole numbers does each cube root lie between? Be prepared to explain your reasoning.

### 4 Solutions on a Number Line

#### Student Task Statement

The numbers , , and are positive, and:



1. Plot , , and on the number line. Be prepared to share your reasoning with the class.
2. Plot on the number line.



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