

Slide 1:

How would you describe the values represented on each number line?

Slide 3:

How does a number line help you compare the size of the values on it?

Slide 5:

Can you identify opposites on the number line?

What's *opposite* with opposite values on a number line?

What's the *same* with opposite values on a number line?

Slide 7:

Compare the two number lines shown...

How are the number lines similar?

How are the number lines different?

Slide 9:

In what other way might a student choose to represent/write the values on this number line?

Slide 11:

Can you identify *opposites* on these number lines?  
How do you know they are *opposites*?

Slide 13:

Using the previous number line examples... how would you include the words *opposite values* in a description of rational numbers?

Slide 15:

*When comparing two numbers on a number line, the number closer to zero is the smaller value.*

Can you explain when this statement is true?

Can you explain when this statement is not true?

Slide 18:

How can you use your previous knowledge of integers (*integer signs*) to help you compare and order rational numbers?

Slide 20:

Can you describe how a student could use *place value* to help compare and order the rational numbers shown?

Slide 22:

How do you adjust your thinking if the rational numbers from the previous slide are negative?

Slide 24:

Can you explain how you use the numerator and denominator to compare and order the following rational numbers?

Slide 26:

How does your solution path change when you want to compare and order rational numbers that have different denominators?

Can you demonstrate how you perform this part of your solution path?

Slide 29:

What other approach might a student use to compare and order these rational numbers?

- ☑ I can describe/write examples of the following number types... *integers, fractions, mixed numbers, and decimals*
- ☑ I can define/write examples of opposite values
- ☑ I can explain how number lines help me to compare and order the values on it
- ☑ I can explain/demonstrate how my understanding of integers helps me compare and order rational numbers
- ☑ I can explain/demonstrate how my understanding of place value helps me compare and order rational numbers
- ☑ I can explain/demonstrate how my understanding of fractions helps me compare and order rational numbers