The absolute value of a number

Connect

opposites

I do

Absolute value - what is it?

"How far a number is from zero on the number line, *regardless of direction*"

I do

Absolute Value - What does it look like?

I do

Absolute Value - what does it mean in a real situation?

Dr D and his mom are playing a game. Since the game started, his mom has moved forward 10 spaces, and Dr D has moved backwards 4 spaces. Use absolute value to show how far each player has moved *regardless of direction.*

I do

Absolute value - are there any tricky problems?

We do

Absolute value - what is it?

The distance a number is from zero, *regardless of direction*

We do

What does it look like?

We do

Where might I see it in a real situation?

Two Air Force jets are flying side by side. At a certain point in their flight, one plane ascends 8,000 ft in altitude, and the other decends 6,500 feet in altitude.

Use absolute value to show how much the altitude of each plane changed *regardless of direction*.

We do

Are there any tricky problems?

"opposite of the absolute value"

$$-|5| \qquad |-1.5|$$

$$|-6| \qquad -|-4|$$

$$-|-10| \qquad |8|$$

You do together on whiteboard

Today, it is 12 degrees colder in Lilburn than it was yesterday.

However, in Washington, DC, it is 4 degrees warmer than yesterday.

Use absolute value to show *how much the temperature has changed* in each city, regardless of direction.

You do alone on index card

$\left|\frac{2}{3}\right| =$

$\left|-\frac{2}{3}\right| =$

$-\left|\frac{2}{3}\right| =$

$-\left|-\frac{2}{3}\right| =$