



Adding & subtracting rational numbers

Moves on a number line

- Today: add and subtract positives and negatives, and know why.

$5 - (-3)$

- Two minus signs. What do you do with them?

Turn & talk: is it 2 or 8?

Every problem is a MOVE

- Adding a positive $\rightarrow$ move right.
- Adding a negative $\rightarrow$ move left.

Subtracting = adding the OPPOSITE

- $5 - (-3) = 5 + 3 = 8$. Move right.
- The second minus belongs to the NUMBER, not the operation.

“Two minuses make a plus” is a chant. This is the reason.

Same start, opposite directions

- $-6 - (-4) = -6 + 4 = -2 \rightarrow$ right.
- $-6 - 4 = -6 + (-4) = -10 \rightarrow$ left.

One lands above -6 , one below. That IS the rule.

Your turn

- $-4 - 6$. Rewrite as an addition, then solve.
- Thumbs up when you have it.

Where you land vs how far apart

- $-2\frac{1}{2} + 7\frac{1}{2} = 5$ — that is where you LAND.
- $-2\frac{1}{2}$ to $7\frac{1}{2}$ is 10 apart — that is the DISTANCE.

Different questions. They only match when you start at zero.

Now you

- → In-class practice sheet