

Academic Vocabulary for Operations with Rational Numbers

- Rational Number
- withdrawal
- Negative
- temperature
- number line
- increase
- decrease
- sum
- Difference
- Recipicol

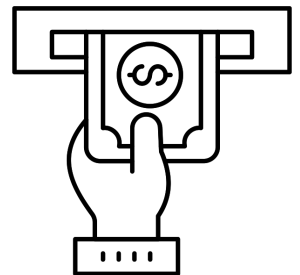
rational number

A rational number is a number that can be written as a fraction or the opposite of a fraction. For example, 8 and -8 are rational numbers because they can be written as $\frac{8}{1}$ and $-\frac{8}{1}$. Also, 0.75 and -0.75 are rational numbers because they can be written as $\frac{75}{100}$ and $-\frac{75}{100}$. 1.333333 is rational because it can be written as $\frac{1}{3}$. A famous irrational number is pi (π) because it cannot be written as a fraction. We round the value to 3.14.

withdrawal

When you take money out of an account, it is called a withdrawal.

For example, a person removed \$25 from their bank account. Before the withdrawal, they had \$350. After the withdrawal, they had \$325, because $350 - 25 = 325$.

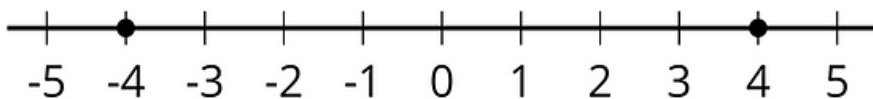


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opposite

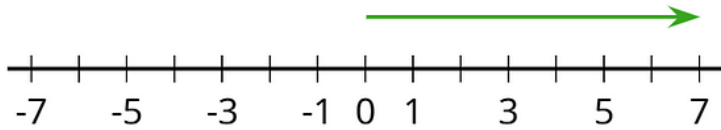
Two numbers are opposites if they are the same distance from 0 and on different sides of the number line.

For example, 4 is the opposite of -4, and -4 is the opposite of 4. They are both the same distance from 0. One is negative, and the other is positive.



positive number

A positive number is a number that is greater than zero. On a horizontal number line, positive numbers are usually shown to the right of 0.



negative number

A negative number is a number that is less than zero. On a horizontal number line, negative numbers are usually shown to the left of 0.



same rate

We use the words *same rate* to describe two situations that have equivalent ratios.

For example, a sink is filling with water at a rate of 2 gallons per minute. If a tub is also filling with water at a rate of 2 gallons per minute, then the sink and the tub are filling at the same rate.

speed

Speed is one way to describe how fast something is moving. Speed tells how much distance the object travels in a certain amount of time.

For example, Tyler walks at a speed of 4 miles per hour. Priya walks at a speed of 5 miles per hour. Priya walks faster than Tyler, because she travels more distance in the same amount of time.

