

NEGATIVE AND POSITIVE NUMBERS CHEAT SHEET

Adding Integers
Same signs: use the same sign and add the two numbers.
Positive + Positive = Positive
 $(+3) + (+7) = +10$
Negative + Negative = Negative
 $(-3) + (-7) = -10$
Different signs: use the sign of the bigger number and subtract.
 $(-5) + (+7) = +2$
 $(+4) + (-8) = -4$

Subtracting Integers
Add the opposite: change the - sign to + and change the second number to the opposite sign. Then use the rules for adding.
 $(+5) - (-5)$
becomes: $(+5) + (+5) = +10$
 $(-3) - (-6)$
becomes: $(-3) + (+6) = +3$

Multiplying Integers
Same signs: multiply and the answers will be positive.
 $(+4) \times (+7) = +42$
 $(-3) \times (-7) = +21$
Different signs: the answers will be negative.
 $(+4) \times (-7) = -28$
 $(-3) \times (+7) = -21$

Dividing Integers
Same signs: divide and the answers will be positive.
 $(+12) \div (+7) = +6$
 $(-9) \div (-3) = +3$
Different signs: divide and the answers will be negative.
 $(+12) \div (-7) = -2$
 $(-9) \div (+3) = -3$

Adding a Negative
Adding a negative number is the same as subtracting. It makes the number lower.
 $(+2) + (-4) = -2$

Subtracting a Negative
Subtracting a negative number is the same as adding. It makes the number higher.
 $(+2) - (-3) = +5$

REAL LIFE EXAMPLES OF NEGATIVE NUMBERS
Bank balances
Temperature
Elevation above and below sea level
Stock prices
Elevator level
Profit and losses
Latitude and longitudes

Read the temperature on the thermometers.





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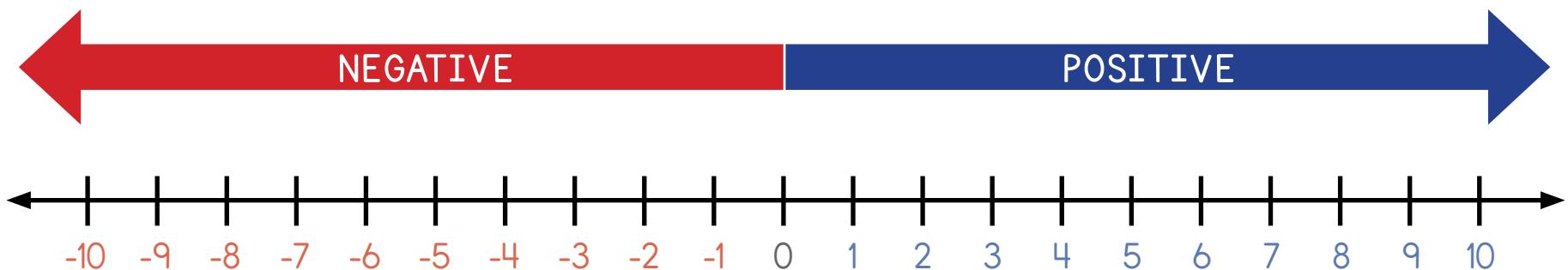
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NEGATIVE AND POSITIVE NUMBERS



Integers: A set of positive and negative whole numbers.

REAL LIFE EXAMPLES OF NEGATIVE NUMBERS

Bank balances

Temperature

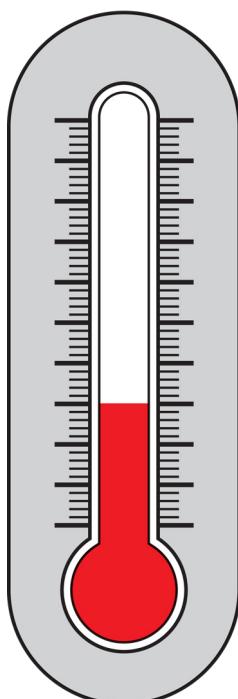
Elevation above and below sea level

Stock prices

Elevator level

Profit and losses

Latitude and longitudes



Adding Integers

Same signs: use the same sign and add the two numbers.

Positive + Positive = Positive

$$(+3) + (+7) = +10$$

Negative + Negative = Negative

$$(-3) + (-7) = -10$$

Different signs: use the sign of the bigger number and subtract.

$$(-5) + (+7) = +2$$

$$(+4) + (-8) = -4$$

Subtracting Integers

Add the opposite: change the - sign to + and change the second number to the opposite sign. Then use the rules for adding.

$$(+5) - (-5)$$

$$\text{becomes: } (+5) + (+5) = +10$$

$$(-3) - (-6)$$

$$\text{becomes: } (-3) + (+6) = +3$$

Multiplying Integers

Same signs: multiply and the answers will be positive.

$$(+6) \times (+7) = +42$$

$$(-3) \times (-3) = +9$$

Different signs: multiply and the answers will be negative.

$$(+6) \times (-7) = -42$$

$$(-8) \times (+2) = -16$$

Dividing Integers

Same signs: divide and the answers will be positive.

$$(+42) \div (+7) = +6$$

$$(-9) \div (-3) = +3$$

Different signs: divide and the answers will be negative.

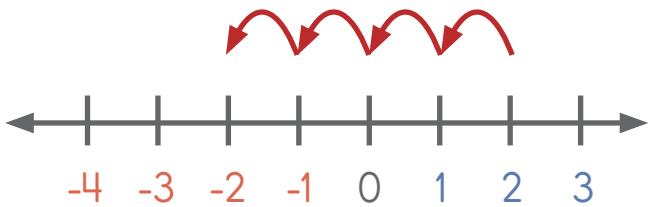
$$(+49) \div (-7) = -7$$

$$(-36) \div (+6) = -6$$

Adding a Negative

Adding a **negative number** is the same as subtracting, it makes the number lower.

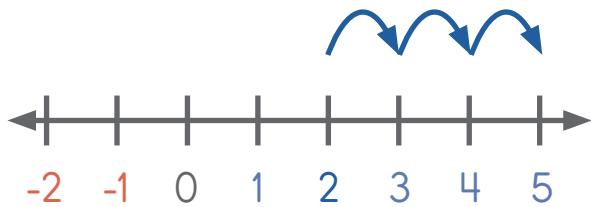
$$(+2) + (-4) = -2$$



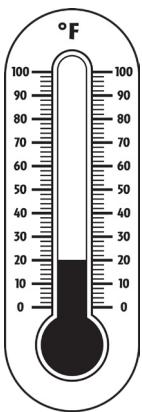
Subtracting a Negative

Subtracting a **negative number** is the same as adding, it makes the number higher.

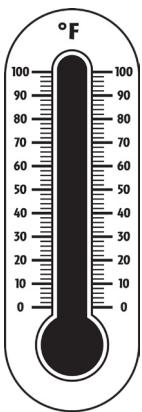
$$(+2) - (-3) = +5$$



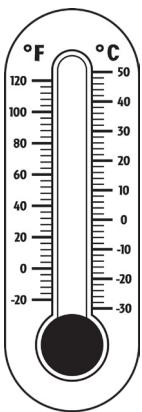
Read the temperature on the thermometers.



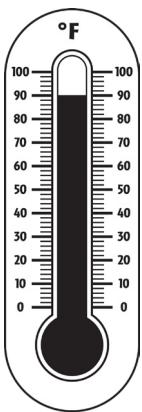
= °F



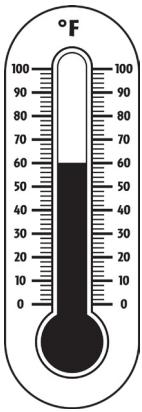
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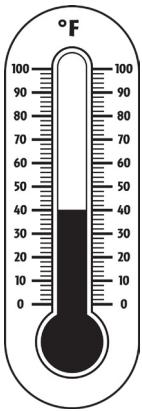
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