

Adding Real Numbers:

Positive + Positive = Positive	$5 + 3 = 8$
Negative + Negative = Negative	$(-6) + (-3) = -9$
Sum of a negative and a positive number: find the difference between the two numbers, and keep the sign of the larger number	$(-6) + 3 = -3$ $9 + (-12) = -3$ $(-5) + 7 = 2$ $4 + (-2) = 2$

Subtracting Real Numbers:

Rule: make it an addition problem! 1. change the subtraction sign (-) to an addition sign (+) 2. change the sign of the next number to its opposite 3. now that it is an addition problem, follow the addition rules!	$(-8) - 3 = -8 + (-3) = -11$ $4 - (-3) = 4 + 3 = 7$ $(-7) - (-5) = (-7) + 5 = -2$ $(-5) - (-7) = (-5) + 7 = 2$
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Multiplying Real Numbers:

Positive x Positive = Positive	$3 \times 4 = 12$
Negative x Negative = Positive	$(-3) \times (-5) = 15$
When the signs are different = Negative	$(-3) \times 2 = -6$ $3 \times (-2) = -6$

Dividing Real Numbers:

Positive \div Positive = Positive	$18 \div 3 = 6$
Negative \div Negative = Positive	$(-18) \div (-3) = 6$
When the signs are different = Negative	$(-18) \div 3 = -6$ $18 \div (-3) = -6$