

Adding Integers

Same Signs: Add and keep the sign

Ex: $-5 + (-4) = -9$

Different Signs: Subtract and keep the sign of the greater absolute value

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

Ex: $-10 + 3 = -7$

Subtracting Integers

Keep, Change, Change

1. **Keep** the 1st number the same

2. **Change** subtraction to addition

3. **Change** the 2nd number to its opposite

*Then follow addition rules

Ex: $-8 - 2$

$-8 + (-2) = -10$

$14 - (-3)$

$14 + 3 = 17$

Multiplying Integers

Same Signs: Answer is POSITIVE

Ex: $2(4) = 8$ $-2(-4) = 8$

Different Signs: Answer is NEGATIVE

Ex: $-2(4) = -8$ $2(-4) = -8$

Dividing Integers

Same Signs: Answer is positive

Ex: $20 \div 5 = 4$ $-20 \div (-5) = 4$

Different Signs: Answer is negative

Ex: $-20 \div 5 = -4$ $20 \div (-5) = -4$

