

# Multiplying & Dividing Integers

10/29

## Rules:

- Multiply or divide normally
- IF BOTH ARE NEGATIVE, YOUR ANSWER IS POSITIVE
- IF ONE IS POSITIVE & ONE IS NEGATIVE, YOUR ANSWER IS NEGATIVE

Same Sign = Positive (+)

different Signs = Negative (-)

+	-	-
-	+	-
-	-	+

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## Examples

$$\textcircled{1} \quad -3(2) = -6$$

$$5(-1) = -5$$

$$(-3)^2 = -3 \cdot -3 = 9$$

$$-4(-8) = 32$$

$$(-4)^3 = \boxed{-4 \cdot -4} \cdot -4$$

$$16 \cdot -4$$

$$-64$$

+	-	-
-	+	-
-	-	+

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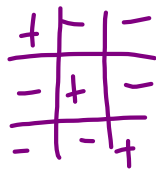
Dividing

①  $-36 \div 6 = -6$

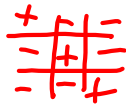
③  $\frac{25}{-5} = -5$

②  $\frac{-48}{-6} = 8$

④  $\frac{42}{-7} = -6$



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Practice

①  $(-2)(35) = -70$

②  $(-5)(-4) = 20$

③  $(-6)^2 = 36$   
 $-6 \cdot -6$

④  $\frac{-12}{4} = -3$

⑤  $\frac{45}{-9} = -5$

⑥  $\frac{-36}{-12} = 3$

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Find the average temperature

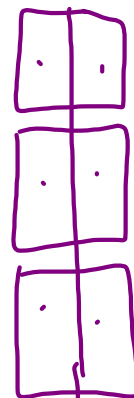
7, -3, 5, -6, 3, -9

$$-3 \div 6$$

$$-0.5 \text{ or}$$

$$-\frac{1}{2}^{\circ}$$

+	-
7	3
5	6
3	9
15	-18



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