

## Multiplying & Dividing Integers <sup>11/2</sup>

\* The math does NOT Change,  
You multiply/divide the Same as Always.

Rules:

1. Positive  $\times$  /  $\div$  Negative = Negative

$$\begin{array}{l} \text{ex) } 5 \cdot (-4) = -20 \quad -45 \div 9 = -5 \\ (-3)(2) = -6 \quad \frac{36}{-6} = -6 \end{array}$$

2. Negative  $\times$  /  $\div$  Negative = Positive

$$\begin{array}{l} \text{ex) } -5 \cdot -4 = 20 \quad -45 \div -5 = 9 \\ -3(-2) = 6 \quad -36 \div -6 = 6 \\ \frac{-36}{-6} = 6 \end{array}$$

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Same Signs = Positive

Different Signs = Negative

+	-	-
-	+	-
-	-	+

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## Special Products

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

$$(-5)^2 = (-5)(-5) = 25$$

$$(-2)^3 = (-2)(-2)(-2) = -8$$

4(-2)

$$(-5)(-2)(3)$$

10(3) = 30

$$-5 \cdot -2 \cdot -3$$

10(-3) = -30

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## Practice

①  $-10(2) = -20$

⑤  $(-2)(-2)(-1) = -4$

②  $-3(-4) = 12$

⑥  $55 \div -11 = -5$

③  $7(-1) = -7$

⑦  $\frac{36}{-9} = -4$

④  $(-5)^2 = +25$

⑧  $\frac{-56}{-7} = 8$

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