

8.1 & 8.2 Multiplying Integers

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Ex 1

$$\begin{aligned} 3 \times 2 \\ = 6 \end{aligned}$$

$$\begin{aligned} -3 \times 2 \\ = -6 \end{aligned}$$

$$\begin{aligned} -3 \times -2 \\ = 6 \end{aligned}$$

SIGN RULES

When multiplying

$$(+)(+) = +$$

$$(+)(-) = (-)$$

$$(-)(-) = (+)$$

Ex #2

$$\begin{aligned} \text{a) } (+3) \times (-4) \\ = -12 \end{aligned}$$

$$\begin{aligned} \text{b) } 3 \cdot -4 \\ = -12 \end{aligned}$$

$$\begin{aligned} \text{c) } (3)(-4) \\ = -12 \end{aligned}$$

$$\begin{aligned} \text{d) } +3 \times -4 \\ = -12 \end{aligned}$$

Ex #3

$$\begin{aligned} \text{a) } (+6) \times (-2) \\ = -12 \end{aligned}$$

$$\text{b) } -5 \cdot 3 = -15$$

$$\text{c) } (-6)(-4) = 24$$

$$\text{d) } 10 \times (-4) = -40$$

$$e) (-4)(-6) = 24$$

$$f) (-4)(10) = -40$$

Ex #4

$$\begin{aligned} a) (3)(5)(-1) \\ &= 15(-1) \\ &= \boxed{-15} \end{aligned}$$

$$\begin{aligned} b) (10)(-2)(-1) \\ &= (-20)(-1) \\ &= \boxed{20} \end{aligned}$$

$$\begin{aligned} c) (-4) \times (-3) \times 2 \\ &= 12 \times 2 \\ &= \boxed{24} \end{aligned}$$

$$\begin{aligned} d) 2 \times (-1) \times 6 \\ &= -2 \times 6 \\ &= \boxed{-12} \end{aligned}$$

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