

Multiply + Divide Integers

Rule: When $\times$ or $\div$ 2 #'s

- If the signs are the same,
answer is positive

$$\text{pos} \times \text{pos} = \text{pos}$$

$$\text{pos} \div \text{pos} = \text{pos}$$

$$\text{neg} \times \text{neg} = \text{pos}$$

$$\text{neg} \div \text{neg} = \text{pos}$$

- If the signs are different,
answer is negative

$$\text{pos} \times \text{neg} = \text{neg}$$

$$\text{neg} \times \text{pos} = \text{neg}$$

$$\text{pos} \div \text{neg} = \text{neg}$$

$$\text{neg} \div \text{pos} = \text{neg}$$

ex. $-5 \cdot -3 = 15$

$$5 \cdot 3 = 15$$

$$-5 \cdot 3 = -15$$

$$5 \cdot -3 = -15$$

ex. $-15 \div -5 = 3$

$$15 \div 5 = 3$$

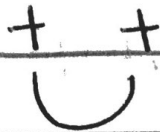
$$-15 \div 5 = -3$$

$$15 \div -5 = -3$$

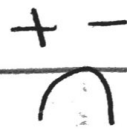
ex. $-8(2) = -16$

$$-8(-2) = 16$$

When $\times$ Integers:



= positive



= negative

$$2 \times 3 = 6$$

$$-2 \times -3 = 6$$

$$-8 \times 6 = -48$$

$$5 \times -7 = -35$$