

Here are the rules when multiplying integers:

- Multiplying numbers that have the **same signs** results in the product being **POSITIVE**.
- Multiplying numbers that have **different signs** results in the product being **NEGATIVE**.

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

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

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

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

When multiplying Integers, you simply multiply the 'number part' of the numbers together as normal, and then follow the rules below to determine the sign.

Example 1: Simplify each of the following.

a) 9×5

$$45$$

b) $(-3) \cdot (-8)$

$$24$$

c) $(-7)(6)$

$$-42$$

d) $5(-9)$

$$-45$$

e) $(-3)(0)$

$$0$$

f) $(-2)(4)(5)$

$$-40$$

g) $(-4)(-3)(2)$

$$24$$

h) $(-5)(-1)(-3)$

$$-15$$

i) $10(597)$

$$5970$$

j) $-200(3000)$

$$-600000$$