2.4 Multiplying Integers

The product of two numbers with the same sign is positive.

(-4)(-5) = 20

The product of two numbers with different signs is negative.

7(-9) = -63

Multiplying Integers Examples

1.) (-11) · (-6) = 66

2.) (-9) · 18 = -162

3.) (-17) · (-4) = 68

4.) 10 · (-17) · 5 = -170 · 5 = -850

5.) 5 · (-2) = -10

6.) (-6) · 8 = -48

7.) 2 · (-3) · (-2) = -6 · -2 = 12

Multiplying Integers Examples

We can also multiply integers with variables as well:

1.) $(-4) \cdot b =$ $-4b$

2.) $(-5) \cdot 3x =$ $-15x$

3.) $(-5y)(-6) =$ $30y$

4.) $(7y)(5z) =$ $35yz$

5.) $-3(-a)(-b) =$ $-3ab$

6.) $5x \cdot (-4)(-2) =$ $40x$