

## 8.1 Exploring Integer Multiplication

### Sign Rules For Multiplication:

$$(POSITIVE) \times (POSITIVE) = \underline{\hspace{2cm}}$$

$$(POSITIVE) \times (NEGATIVE) = \underline{\hspace{2cm}}$$

$$(NEGATIVE) \times (POSITIVE) = \underline{\hspace{2cm}}$$

$$(NEGATIVE) \times (NEGATIVE) = \underline{\hspace{2cm}}$$

### Product →

**Brackets** → Side by side brackets may be used to indicate that multiplication is taking place.

$$5 \times 2 = (5) \times (2) = (5)(2) = 10$$

Ex. 1 Determine each Product.

a)  $2 \times 3 =$

b)  $(-5) \times (2) =$

c)  $(3)(-4) =$

d)  $(-4)(-4) =$

### Multiplication as Repeated Addition

$$3 \times 5 =$$

$$5 \times 3 =$$

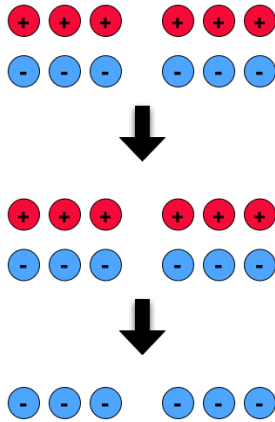
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## Modeling Multiplication with Integer Chips

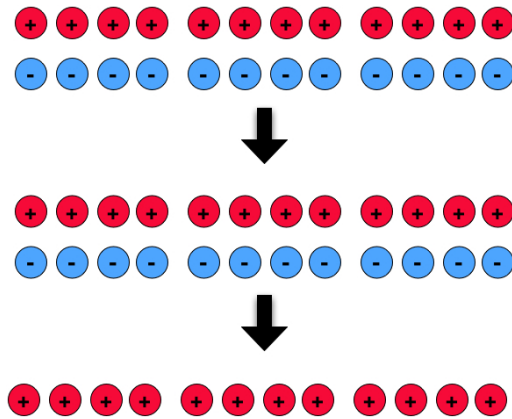


Ex. 2 What multiplication statement does each set of diagrams represent?

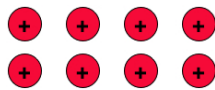
a)



b)



c)



d)

