

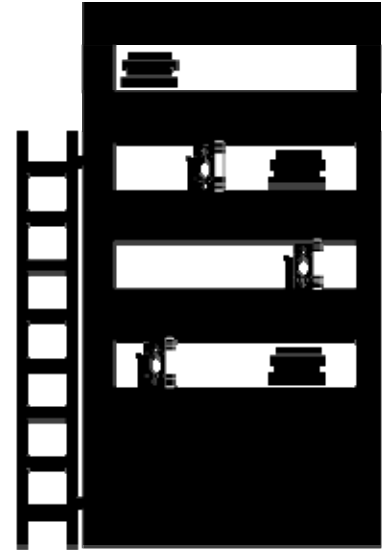
Name \_\_\_\_\_

Date \_\_\_\_\_

## Scientific Notation Multiplication and Division - Step-by-Step Lesson

Find the product.

$$(6.8 \times 10^2) (11.5 \times 10^3)$$



### Explanation:

$$(6.8 \times 10^2) (11.5 \times 10^3)$$

Separate the problem into its two components.

a) Constants      b) Powers of ten

$$= (6.8 \times 11.5) (10^2 \times 10^3) \quad \text{multiply the constants.}$$

$$= 78.2 \times 10^{2+3} \quad \text{multiply the powers of ten by adding them.}$$

$$= 78.2 \times 10^5 \quad \text{Writing the number in proper scientific form.}$$

$$= 7.82 \times 10^6$$

