## Number Sense: Decimal Multiplication

Amelia can walk 3.6 miles in one hour. How far will she walk in 2.1 hours?

Step 1. Estimate

$$3.5 \times 2 = 7$$

Step 2. Compare each factor to 1 to determine the relative size of the product.

Because both factors are greater than 1, your answer will be greater than both factors. Step 3. Multiply as you would with whole numbers. Use reasoning to place the decimal appropriately.

$$3.6 \times 2.1 \over 3.6 \over 7.5.6$$

Amelia will walk 7.56 miles in 2.1 hours.

Solve. Check your answer for reasonableness.

**5.** Explain why  $0.3 \times 0.9 \neq 2.7$ . What is the correct answer?

**6. Mental Math** Estimate the product of 3.9 and 4.6 using mental math. Explain the method you used.