



# Compare Products

Let's compare products.

## Warm-up

### True or False: Compare Products

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $\frac{4}{5} \times 100 = 120$

- $\frac{4}{5} \times 100 < 100$

- $\frac{4}{5} \times 100 = 80$

## Activity 1

### Go the Distance

Kiran, Noah, and Elena each ran as far as they could in 1 hour.

- Elena ran  $\frac{3}{4}$  of a 5-mile trail.
- Noah ran  $\frac{1}{2}$  of a 5-mile trail.
- Kiran ran  $1\frac{1}{4}$  of a 5-mile trail.

1. List the distances the students ran, in increasing order. Explain your reasoning.

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2. Find a number that makes each statement true. Explain your reasoning.

- a. Diego ran farther than Noah, but not as far as Kiran.

Diego ran \_\_\_\_\_ of a 5-mile trail.

- b. Lin ran farther than Kiran, but not twice as far as Kiran.

Lin ran \_\_\_\_\_ of a 5-mile trail.

- c. Tyler ran farther than Noah, but not as far as Elena.

Tyler ran \_\_\_\_\_ of a 5-mile trail.



## Activity 2

### Compare Expressions

1. Write  $<$  or  $>$  in each blank to make the statement true. Explain or show your reasoning.

a.  $\frac{5}{4} \times 100$  \_\_\_\_  $100$

b.  $\frac{5}{7} \times 2$  \_\_\_\_  $2$

c.  $\frac{1}{3} \times 25$  \_\_\_\_  $25$

2. Write a number in each box to make the statement true. Explain or show your reasoning.

a.  $\frac{\square}{9} \times 50 < 50$

b.  $\frac{\square}{9} \times 50 = 50$

c.  $\frac{\square}{9} \times 50 > 50$

3. Write a number in each box to make the statement true. Explain or show your reasoning.

a.  $\frac{9}{\boxed{\phantom{00}}} \times 50 < 50$

b.  $\frac{9}{\boxed{\phantom{00}}} \times 50 = 50$

c.  $\frac{9}{\boxed{\phantom{00}}} \times 50 > 50$