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.

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

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

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

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.

_____

_____

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.

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. $\dfrac{\boxed{}}{9} \times 50 < 50$

   b. $\dfrac{\boxed{}}{9} \times 50 = 50$

   c. $\dfrac{\boxed{}}{9} \times 50 > 50$

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

a. $\dfrac{9}{\boxed{}} \times 50 < 50$

b. $\dfrac{9}{\boxed{}} \times 50 = 50$

c. $\dfrac{9}{\boxed{}} \times 50 > 50$