



Interpret Diagrams

Let's compare products without multiplying.

Warm-up

Estimation Exploration: Fraction of a Whole Number

$$\frac{5}{3} \times 9,625$$

Record an estimate that is:

| too low | about right | too high |
|---------|-------------|----------|
| | | |

Activity 1

Match the Diagram

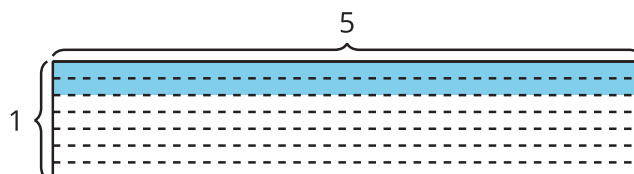
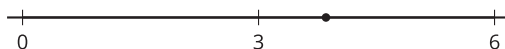
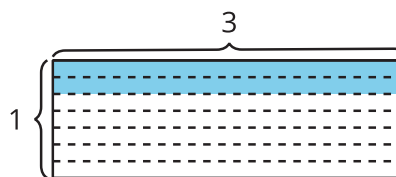
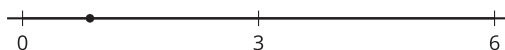
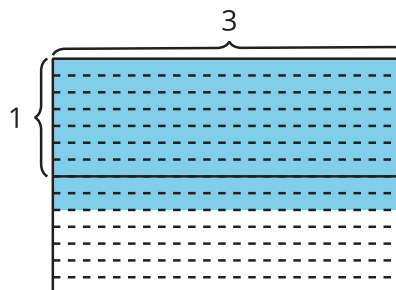
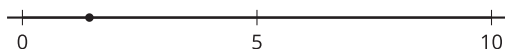
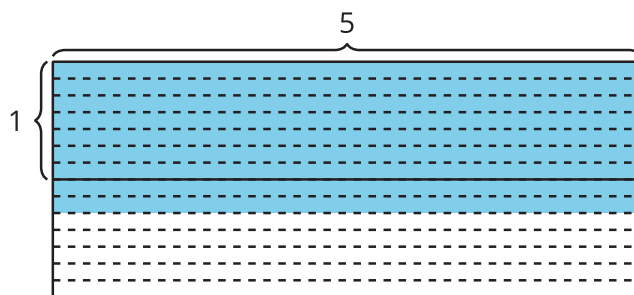
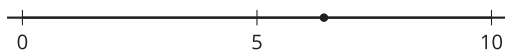
1. Match each expression to a number line and a diagram.

$$\frac{2}{7} \times 3$$

$$\frac{9}{7} \times 3$$

$$\frac{2}{7} \times 5$$

$$\frac{9}{7} \times 5$$



2. Write $<$ or $>$ in each blank to make the inequality true.

a. $\frac{2}{7} \times 3$ ____ 3

b. $\frac{9}{7} \times 3$ ____ 3

c. $\frac{2}{7} \times 5$ ____ 5

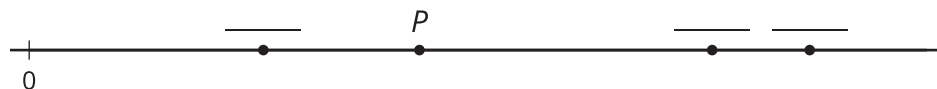
d. $\frac{9}{7} \times 5$ ____ 5

Activity 2

Who Ran Farther?

- Priya ran to her grandmother's house.
- Jada ran twice as far as Priya.
- Han ran $\frac{6}{7}$ as far as Priya.
- Clare ran $\frac{14}{8}$ as far as Priya.
- Mai ran $\frac{3}{5}$ times as far as Priya.

1. Which students ran farther than Priya? _____
2. Which students did not run as far as Priya? _____
3. List the runners in order, from the shortest distance to the longest distance. Explain or show your reasoning.
4. Point P represents how far Priya ran. Find the distance of each runner on the number line. Write the runner's initial in the blank. One runner does not have a point on the number line.



5. Label the distance for the missing runner on the number line.