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:

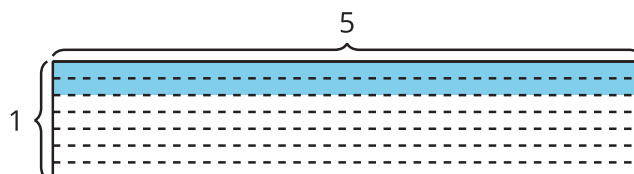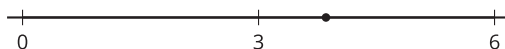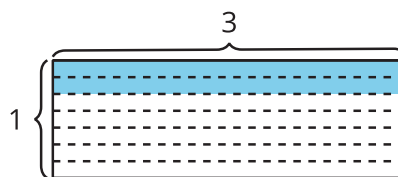| too low	about right	too high

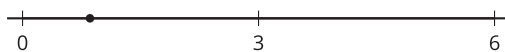## Match the Diagram

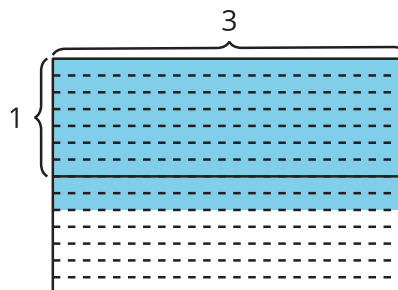1. Match each expression to a number line and a diagram.

$$\frac{2}{7} \times 3 \qquad\qquad \frac{9}{7} \times 3 \qquad\qquad \frac{2}{7} \times 5 \qquad\qquad \frac{9}{7} \times 5$$
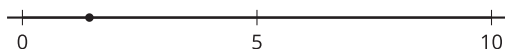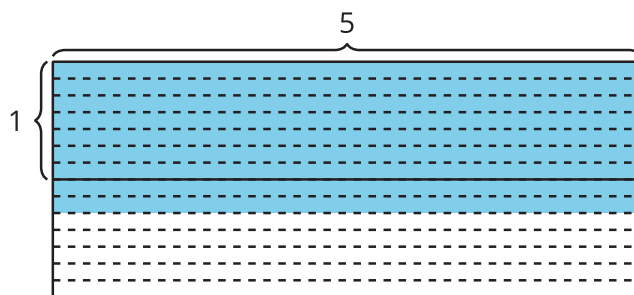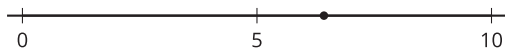
2. Write < or > in each blank to make the inequality true.

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

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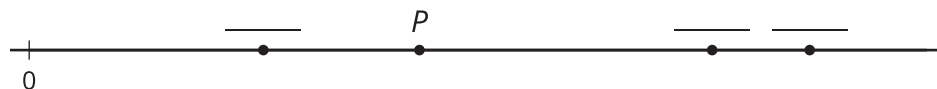
5. Label the distance for the missing runner on the number line.