Lesson 17: Interpret Diagrams

- Let's compare products without multiplying.

Warm-up: Estimation Exploration: Fraction of a Whole Number

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

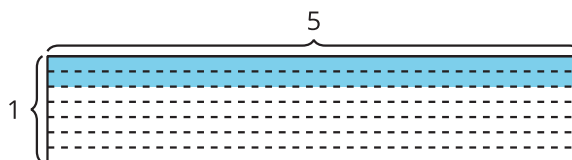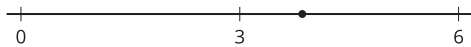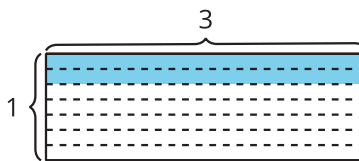Record an estimate that is:

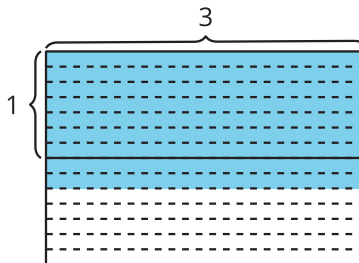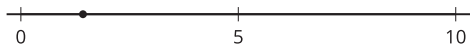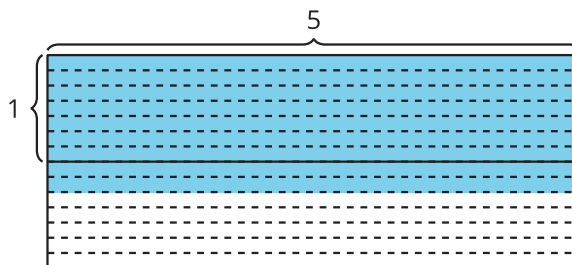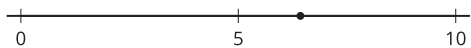| too low	about right	too high

17.1: Match the Diagram

1. Match the expressions and diagrams.

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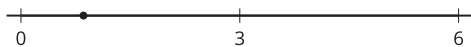
2. Write $<$ or $>$ in each blank to make the inequality true.

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

17.2: 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 shortest distance run to longest. Explain or show your reasoning.

4. The point P represents how far Priya ran. Write the initial of each student in the blank that shows how far they ran. One of the students will be missing.

P

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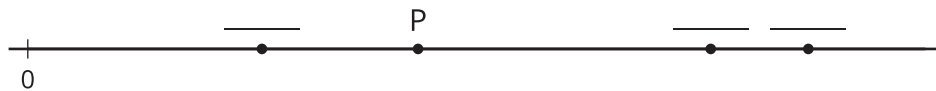
5. Label the distance for the missing student on the number line above.