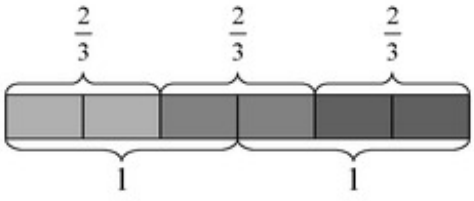
5.NF Connor and Makayla Discuss Multiplication

Makayla said, "I can represent $3 \times \frac{2}{3}$ with 3 rectangles each of length $\frac{2}{3}$."



Connor said, “I know that $\frac{2}{3} \times 3$ can be thought of as $\frac{2}{3}$ of 3. Is 3 copies of $\frac{2}{3}$ the same as $\frac{2}{3}$ of 3?”

a. Draw a diagram to represent $\frac{2}{3}$ of 3.

b. Explain why your picture and Makayla’s picture together show that $3 \times \frac{2}{3} = \frac{2}{3} \times 3$.

c. What property of multiplication do these pictures illustrate?