6.NS Making Hot Cocoa, Variation 2

Task

A recipe for hot chocolate calls for 3 cups of milk. What fraction of the recipe can Nelli make with $\frac{2}{3}$ cups of milk?

a. Solve the problem by drawing a picture.

b. Explain how you can see the answer to the problem in your picture.

c. Which of the following multiplication or divisions equations represents this situation? Explain your reasoning.

$$3 \times \frac{2}{3} = ? \qquad 3 \div \frac{2}{3} = ? \qquad \frac{2}{3} \div 3 = ?$$

d. Solve the arithmetic problem you chose in part (c) and verify that you get the same answer as you did with your picture.