

6.NS How Many Containers in One Cup / Cups in One Container?

Task

a. If $\frac{1}{2}$ cup of water fills $\frac{2}{3}$ of a plastic container, how many containers will 1 cup fill?

- Solve the problem by drawing a picture.
- Which of the following multiplication or divisions problems represents this situation? Explain your reasoning.

$$\frac{1}{2} \times \frac{2}{3} =? \quad \frac{1}{2} \div \frac{2}{3} =? \quad \frac{2}{3} \div \frac{1}{2} =?$$

- Solve the arithmetic problem you chose in part (3) and verify that you get the same answer as you did with your picture.

b. If $\frac{1}{2}$ cup of water fills $\frac{2}{3}$ of a plastic container, how many cups of water will the full container hold?

- Solve the problem by drawing a picture.
- Which of the following multiplication or divisions equations represents this situation? Explain your reasoning.

$$\frac{1}{2} \times \frac{2}{3} =? \quad \frac{1}{2} \div \frac{2}{3} =? \quad \frac{2}{3} \div \frac{1}{2} =?$$

- Solve the arithmetic problem you chose in part (3) and verify that you get the same answer as you did with your picture.



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