

Assessment : Section A Checkpoint

Problem 1

Goals Assessed

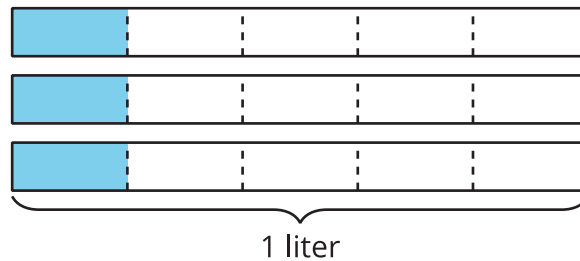
- Solve problems involving division of whole numbers leading to answers that are fractions.

Statement

Five friends equally share 3 liters of water. How many liters of water does each person get? Explain or show your reasoning.

Solution

$\frac{3}{5}$ liter. Sample representation:



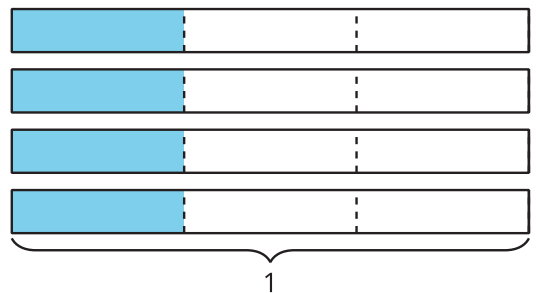
Problem 2

Goals Assessed

- Represent and explain the relationship between division and fractions.

Statement

Write a division equation that matches the diagram.
Explain or show your reasoning.



Solution

$4 \div 3 = \frac{4}{3}$. There are 4 wholes total and they are divided into three equal shares. One of those shares is shaded and that's $\frac{4}{3}$ total shaded.

Problem 3

Goals Assessed

- Represent and explain the relationship between division and fractions.

Statement

Explain why $10 \div 4 = \frac{10}{4}$.

Solution

If I divide 10 things each into 4 equal shares and take one of each, that's $10 \div 4$ since there are 4 equal shares in 10. Since each share is $\frac{1}{4}$ and there are 10 of those shares, one for each thing, that's also $\frac{10}{4}$.