

07 Jan '25

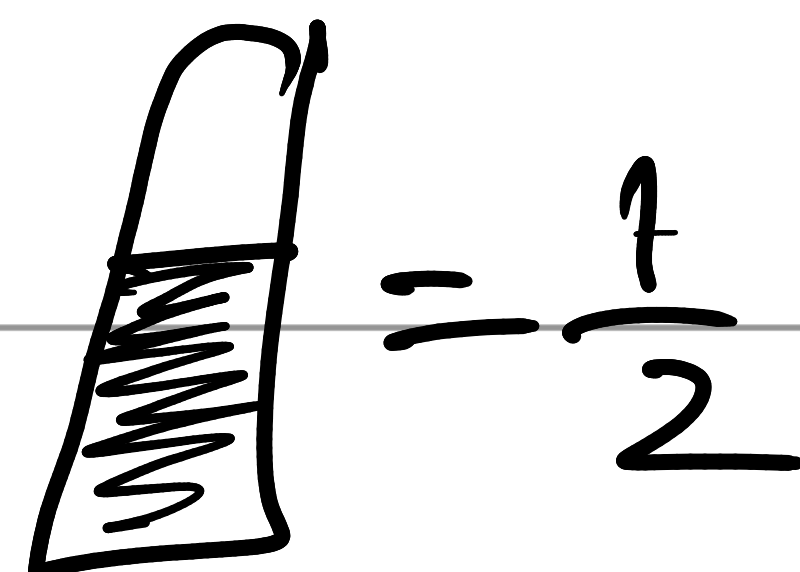
→ Fractions - Real world examples

$$\frac{1}{2} + \frac{2}{5} = \frac{1 \times 5}{2 \times 5} + \frac{2 \times 2}{5 \times 2} = \frac{5+4}{10} = \frac{9}{10}$$

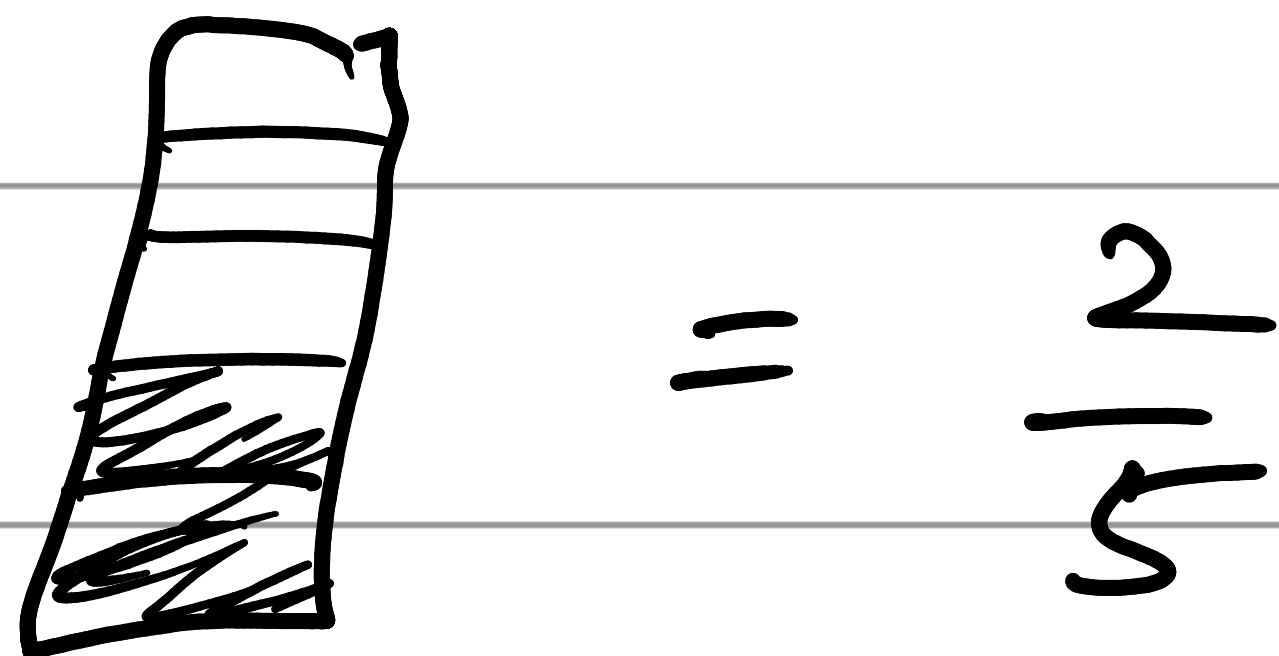
What does this mean?

→ If we have 1 litre water bottle

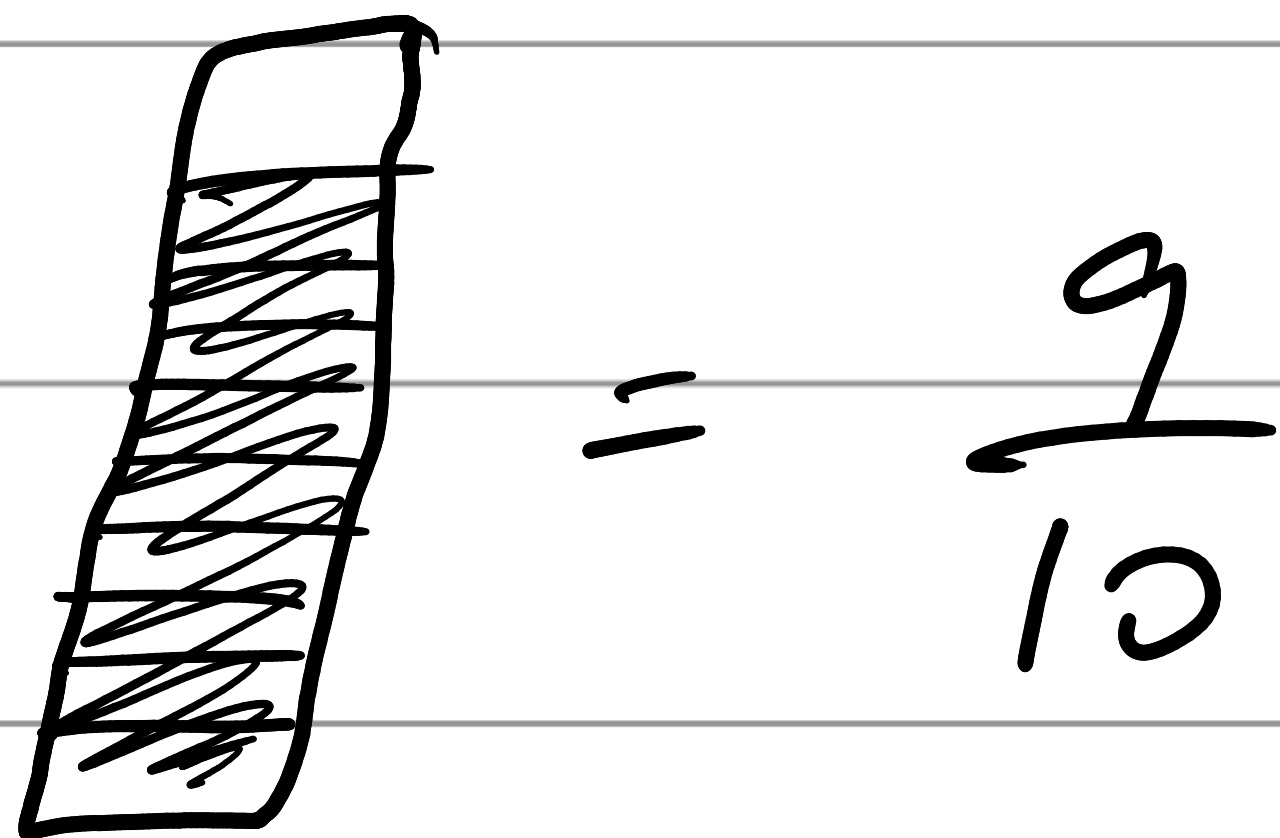
$\frac{1}{2}$ means — the bottle is split into
2 parts and one part is
filled with water -



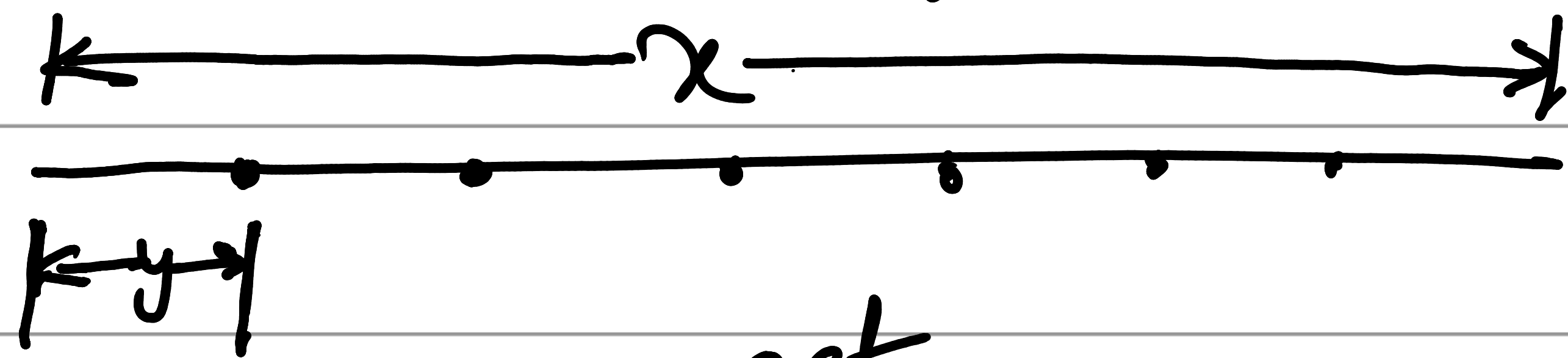
$\frac{2}{5}$ means if the bottle is split into 5 parts, 2 such parts are filled with water.



→ If we pour water from the second bottle into the first, $\frac{1}{2} + \frac{2}{5} = \frac{9}{10}$



→ If you have a rope of length 'x', and want to break into smaller pieces of length 'y' each



Then you can get $n = \frac{x}{y}$ such smaller pieces. If $x = \frac{1}{5}$, $y = \frac{1}{10}$ then $n = \frac{1}{5} \div \frac{1}{10} = 2$ pieces.

HW: Solve word problems on +, -, /, *
of fractions (AI generated).
Verify your answers.