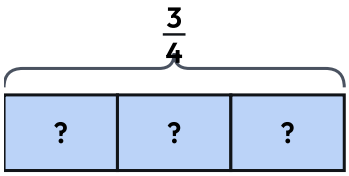
Name _____ Date _____

Problem Solving with Models: Division

Sharing equally

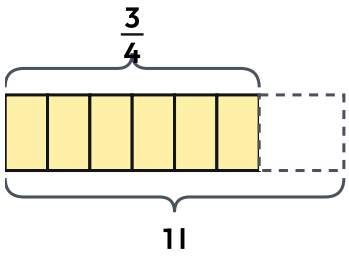
A ribbon $\frac{3}{4}$ m long is cut into 3 equal parts.



$\frac{3}{4} \div 3 = \frac{1}{4}$ m

How many fit?

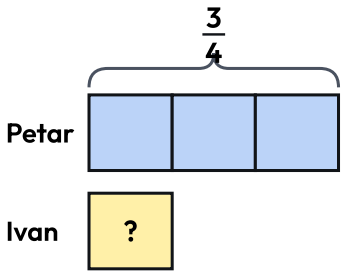
A bottle holds $\frac{3}{4}$ l. A cup holds $\frac{1}{8}$ l. How many cups?



$\frac{3}{4} \div \frac{1}{8} = 6$

Comparison

Petar ran $\frac{3}{4}$ km, 3 times as far as Ivan. How far did Ivan run?



$\frac{3}{4} \div 3 = \frac{1}{4}$ km

Remember

Ask yourself: **are we sharing into equal parts** (how much in one part?) or **finding how many times something fits** (how many parts?). The model shows what to calculate.

1 ON YOUR OWN Draw a model and solve.

a) One pancake needs $\frac{1}{6}$ l of milk. How many pancakes can we make from 2 l of milk?

Answer: _____

b) Three friends share $\frac{3}{5}$ of a pizza equally. How much does each get?

Answer: _____

Names (pair) _____ Date _____

c) Marta has $\frac{4}{5}$ kg of sweets, which is 2 times as much as Luka. How much does Luka have? How much do they have together?

Answer: _____

2 IN PAIRS **Model and calculation.** One student draws the model, the other writes the calculation. Swap roles.

d) A 3 km path is divided into sections of $\frac{3}{4}$ km. How many sections are there?

Answer: _____

e) In 4 days Iva read $\frac{2}{3}$ of a book, the same amount each day. What part of the book did she read each day?

Answer: _____

3 IN A GROUP **Make up a problem.** Make up a story for $2 \div \frac{1}{3}$, draw a model and solve it.

_____

_____

★ ON YOUR OWN **Exit card.** How many pieces of $\frac{2}{3}$ m can we cut from 6 m of rope? ☐