

Solving Word Problems

Anchor Task



“fish out of water”

It means to be in an uncomfortable situation because of an unfamiliar setting.

A tub contains $\frac{1}{3}$ kg more fish than a pail.

The tub contains $\frac{1}{2}$ kg of fish.



Think of ways to find the total mass of fish in the tub and the pail.

Our Friends' Ideas



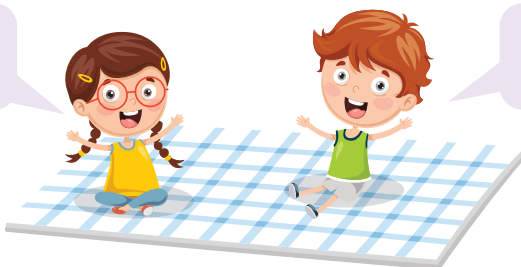
Understand

What is the mass of fish in the tub?

Which contains a greater mass of fish, the tub or the pail?

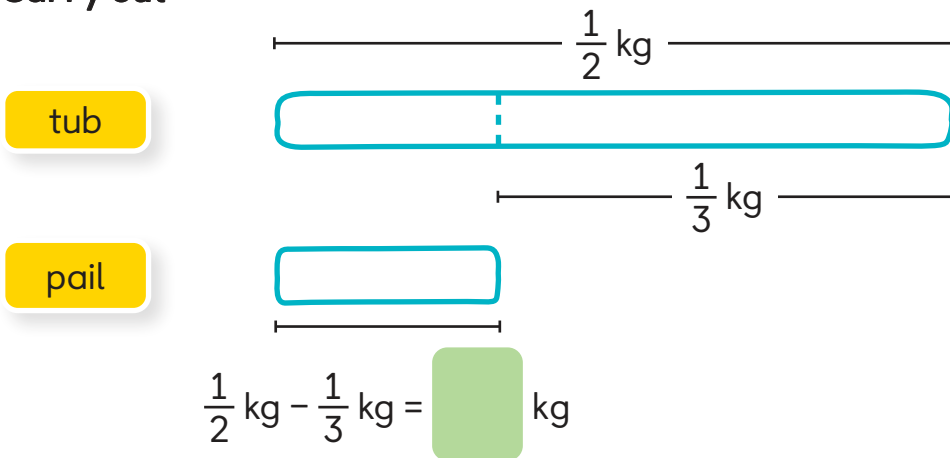
Plan

I plan to draw diagrams.



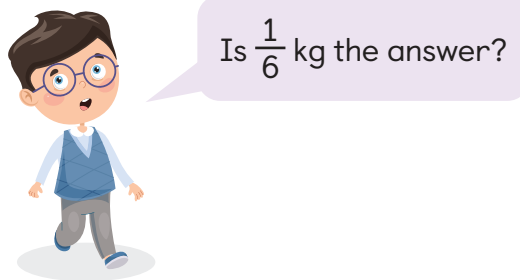
I plan to calculate.

Carry out



$$\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$

Look back



$\frac{1}{6}$ kg is the mass of fish in the pail.

To find the total mass of fish in the tub and the pail, we need to add.

$\frac{1}{6} \text{ kg} + \frac{1}{2} \text{ kg} = \text{[green box]} \text{ kg}$

mass of fish in the tub

$$\frac{1}{6} + \frac{1}{2} = \frac{1}{6} + \frac{\text{[green box]}}{6} = \frac{\text{[green box]}}{6}$$

The total mass of fish in the tub and the pail is $\frac{2}{3}$ kg.

Maths Journal



Li Na

The total mass is $\frac{4}{6}$ kg.



Chris

The total mass is $\frac{2}{3}$ kg.

Explain who is correct.

We can use words, calculations and diagrams to explain ideas in mathematics.

Guided Practice



- understand
- plan
- carry out
- look back

- 1 A beaker contains $\frac{1}{6} \ell$ more water than a cup.

The cup contains $\frac{1}{4} \ell$ of water.

(a) Find the volume of water in the beaker.

(b) Find the total volume of water in the beaker and the cup.

- 2  holds $\frac{1}{2}$ kg of fish.



holds $\frac{1}{4}$ kg less fish than .



holds $\frac{1}{5}$ kg less fish than .

Find the total mass of the fish that any two pails hold.