YOU & MATHS **From words to symbols** Translate the following text into an equation and solve it. Also visualize the situation with a graphic representation.

A man is on a diet and goes into a shop to buy some turkey slices. He is given 3 slices which together weigh $\frac{1}{3}$ of a pound, but his diet allows him to eat $\frac{1}{4}$ of a pound. How much of the 3 slices can he eat while staying true to his diet?

One way to think about the situation is the following. Say the man can eat a fraction x of his 3 slices. You know that 3 slices weigh $\frac{1}{3}$ of a pound and writing it out in pounds you have $x \cdot \frac{1}{3} = \frac{1}{4}$, so the man can only eat $\frac{3}{4}$ of what he was offered. How many slices is that?

You can represent 1 pound as 9 slices (let us imagine that the slices are equal). The man was offered 3 slices but his diet allows him to eat only $\frac{1}{4}$ of the 9 slices, which is 2 slices and $\frac{1}{4}$ of the last slice.