Problems of the Day *Day 15 Answers*

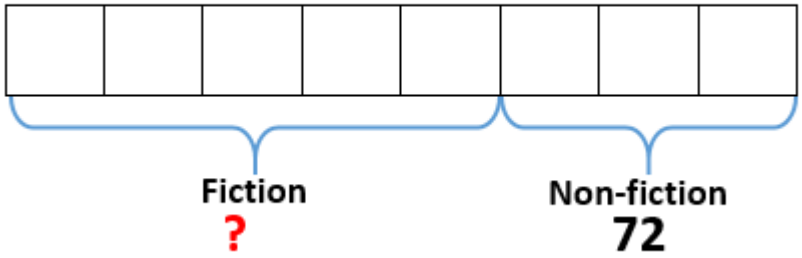
1 On a bookcase

- $\frac{5}{8}$ of the books are fiction books.
- The rest are non-fiction.
- There are 72 non-fiction books.

How many books are fiction?

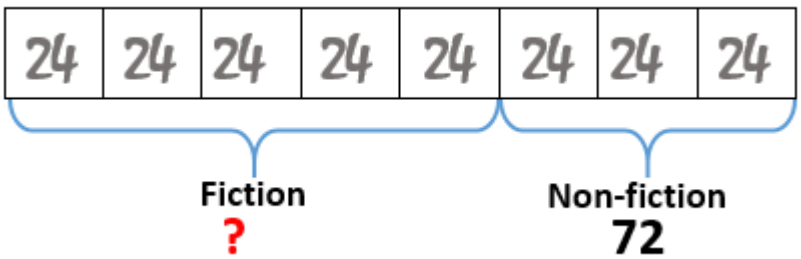
It's a problem involving fractions, so drawing a bar will help you to complete the right calculations.

Here's my bar. I've marked everything that I know and I have marked what I need to find out with a '?'



We can see that 3 of the equal parts total 72.

So one part must be 72 ÷ 3 = 24

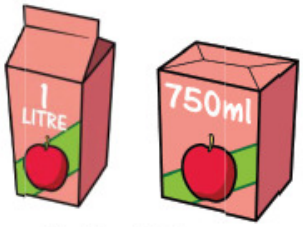


We can now see that the amount of fiction books can be found by calculating:

24 x 5 = 120

There are 120 fiction books

2 Amir has two cartons of apple juice.



He shares all the juice equally between these glasses.



How much apple juice does he pour into each glass?

Altogether, the amount of juice that Amir has is:

1 litre + 750ml

We have mixed units, so we need to convert one of the measures. The question doesn't specify whether the answer should be in ml or litres, so it's up to you.

I have decided to convert the litre to ml. I know that 1 litre is 1000ml,

Altogether, the amount of juice that Amir has is:

1000ml + 750ml = 1750ml

Amir shares 1750ml between 5 glasses.

1750 ÷ 5 = 350

There is 350ml in each glass