

Bar Modelling at Blackhorse KS2

Part/Whole Model

When do we use it?

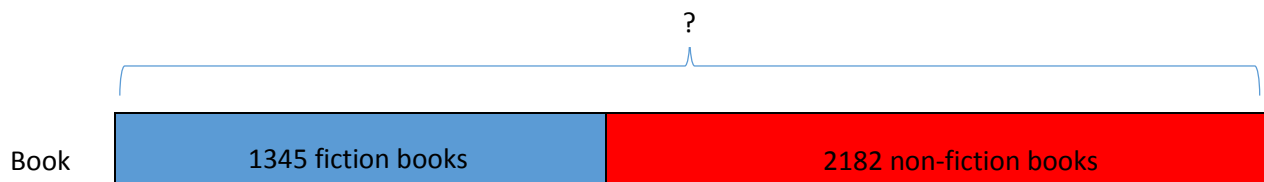
Unequal Parts - Addition and Subtraction

Equal Parts - Multiplication and Division

If we know the parts = Addition or Multiplication

In a book shop there were 1345 fiction books and 2182 non-fiction books.

How many books were there altogether?



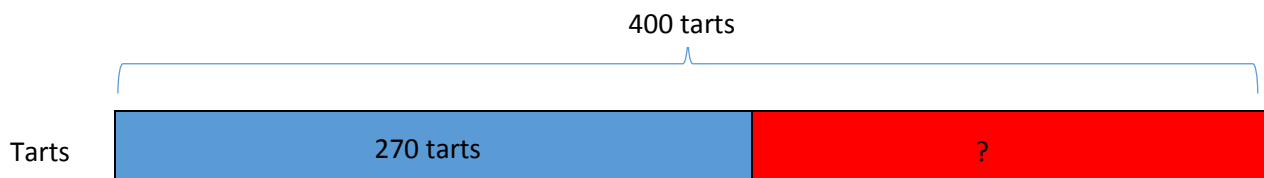
$$1345 + 2182 = 3527$$

If we know the whole = Subtraction or Division

Hannah baked 400 tarts.

She gave 270 tarts away.

How many tarts did Hannah have left?



$$400 - 270 = 130 \text{ tarts}$$

Comparison Model

When do we use it?

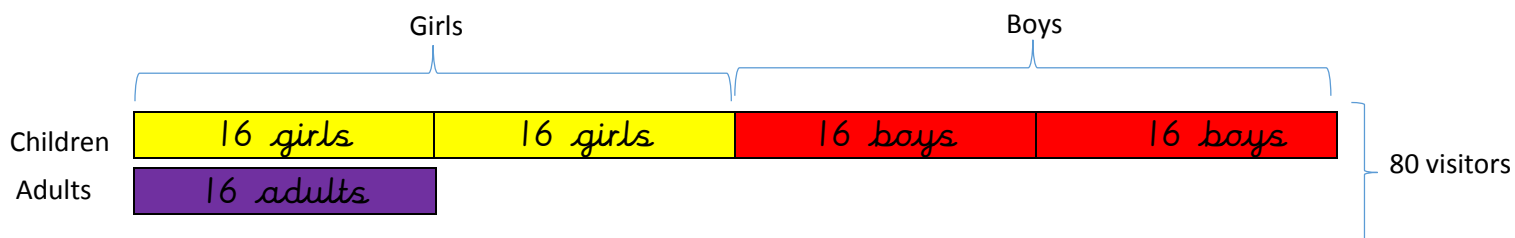
Finding the difference

There are four times as many children as there are adults at the Science Museum.

The number of boys is equal to the number of girls.

Altogether there are 80 visitors at the Science Museum.

How many boys are there at the Science Museum?



$$80 \div 5 = 16$$

$$16 + 16 = 32 \text{ boys}$$

What is that same?

What is different?

Remove the extra to make equal parts

Multiply or divide