Problems of the Day *Day 12 Answers*

1 Sam has £29
He gets £28 more for his birthday.
He buys this cap and jumper with his money.



How much money does he have left?

Sam has £29, then receives £28 for his birthday.

Altogether, Sam must have £29 + £28= £57

In total, Sam spent £12.50 + £27.99 = £40.49

So Sam had £57 and spent £40.49

The amount of money left must be £57 - £40.49 = £16.51

2 One fifth of a number is 12
What is a half of the number?

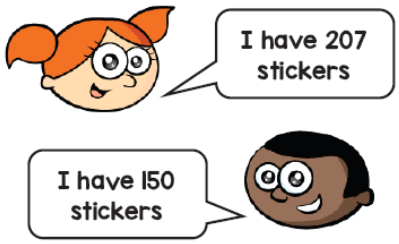
If one fifth of a number is twelve, the whole must be 5 x 12



The whole must be 5 x 12 = 60

Half of the whole = 60 ÷ 2 = 30

3

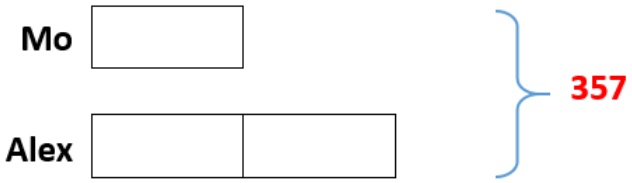


Mo gives Alex some stickers.
Alex now has twice as many as Mo.
How many stickers did Mo give Alex?

This problem is most easily solved if you work backwards.

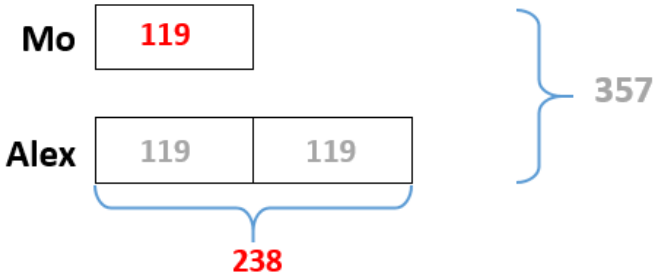
Mo gives Alex some stickers, but there is no change in the number of stickers that they have altogether. So altogether they have 207 + 150 = 357 stickers altogether.

They end up with Alex having twice as many as Mo:



The three parts in the bar are equal. So each part must be 357 ÷ 3 = 119

This means that Mo must end up with 119 and Alex with 238



I don't think we know which is Mo and which is Alex as both could be a boy's name or a girl's name. So there are two answers depending on which child is Alex and which is Mo

a) **If Mo is the girl, she started out with 207 stickers and so if she ended up with 119, she must have given 88 to Alex (because 207 – 119 = 88). As Alex started with 150, he ended up with 88 more than the 250 he started with, which is 238 (because 250 + 88 = 238)**
b) **If Mo is the boy, he started out with 150 stickers and if he ended up with 119, he must have given 31 to Alex (because 150 – 119 = 31). As Alex started with 207, she ended up with 31 more than the 207 she started with, which is 238 (because 207 + 31 = 238)**

So Mo gave Alex either 88 or 31 stickers. It all depends which child is which!