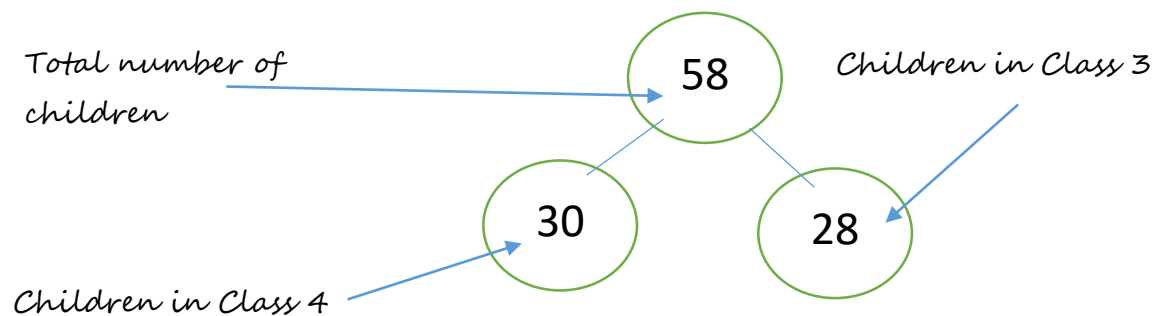*Understanding questions and word problems in Maths is a really important skill. Understanding the question being asked helps us to see what calculations we need to do to solve the problem.*
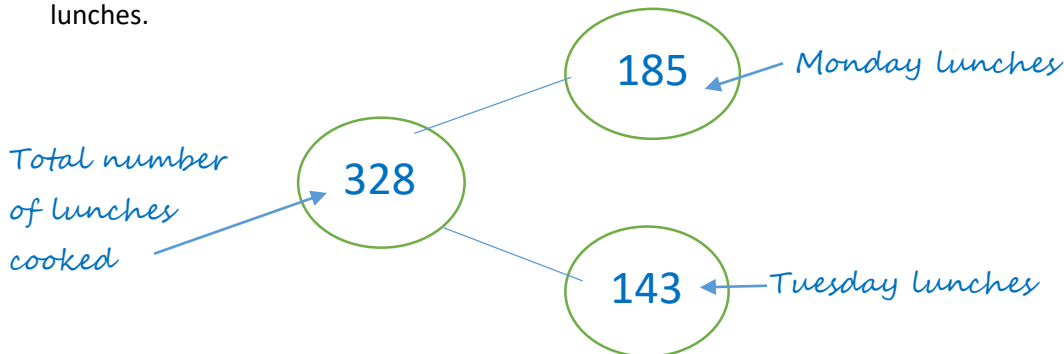
*Here are some questions and word problems with a difference – you have been given ALL the numbers you need (including the 'answers'!). **Your challenge is to put each number in the right place on the part-part-whole and bar models, and label each part of the diagram,** to show you understand the problem and how the numbers relate to each other.*
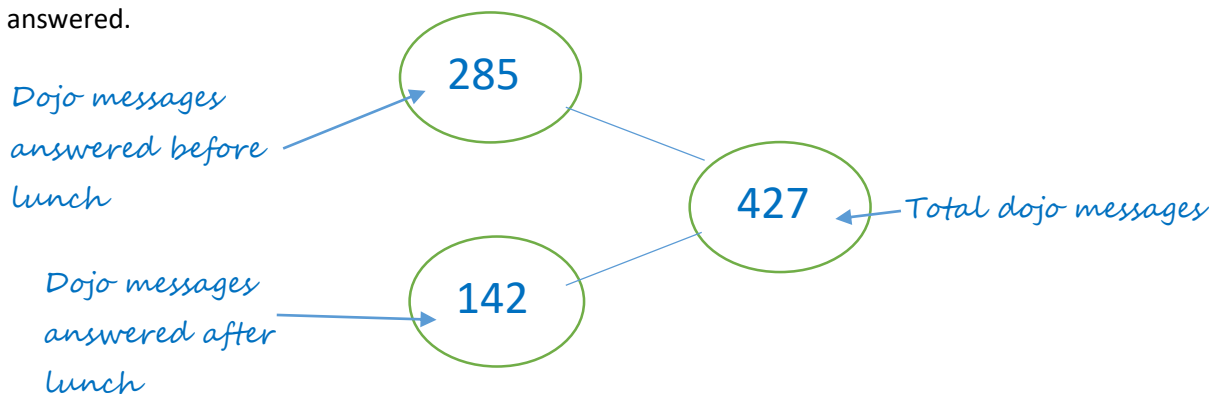
The first one has been done for you, as an example.

1. There are 30 children in Class 4 and 28 children in Class 3. Altogether there are 58 children in the two classes.

Total number of children — 58 — Children in Class 3

30

28

Children in Class 4

2. On Monday Mrs. Webb cooks 185 lunches and on Tuesday she cooks 143. Altogether she cooks 328 lunches.
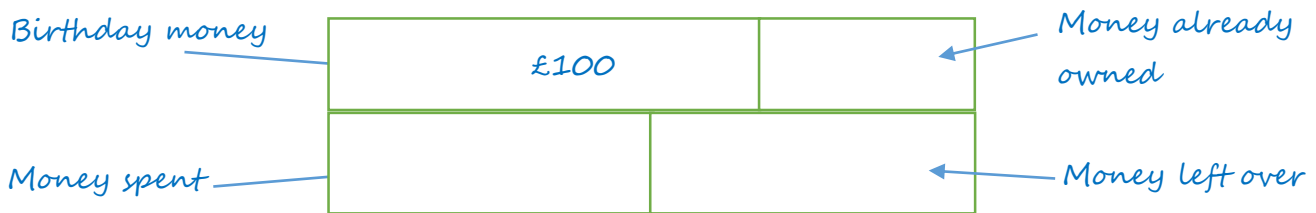
185 — Monday lunches

Total number of lunches cooked — 328

143 — Tuesday lunches

3. Mrs. Andrews has 427 dojo messages. She answers 285 before lunch, and 142 after lunch, so they are all answered.

285

Dojo messages answered before lunch

427 — Total dojo messages

Dojo messages answered after lunch

142

4. Ms. Bandey has 96 tadpoles in her pond. 87 of them turn in to frogs. 9 are still tadpoles.

Original number of tadpoles in Ms. Bandey's pond

96

Tadpoles that turn in to frogs
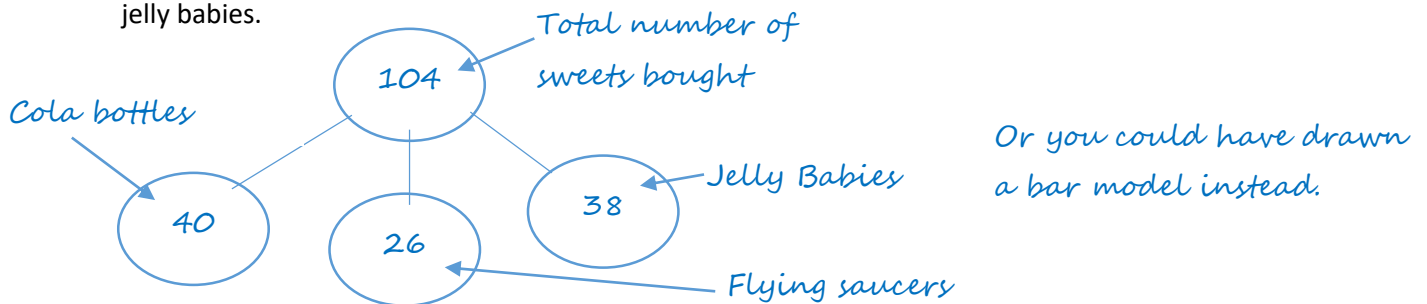
87

9

Tadpoles that don't change

5. For my birthday, I am given £100 and I already have £50, so now I have £150. I spend £75 and have £75 left. (*Hint – think really carefully about the size of each bar.*)

Birthday money

£100

Money already owned

Money spent

Money left over

For these questions you will need to draw your own bar or part-part-whole

6. I go to the sweet shop and buy 104 sweets altogether. I buy 40 cola bottles, 26 flying saucers and 38 jelly babies.

104

Total number of sweets bought

Cola bottles

40

26

38

Jelly Babies

Flying saucers

Or you could have drawn a bar model instead.

7. In my bank account I have £400 and I save £100 more, so now I have £500. Then I spend £250, leaving me with £250 in my bank account. (*Hint – look at Q. 5*)

Money in bank account

£400

£100

Extra money saved

Money spent

£250

£250

Money left over

For the final question, you need to write your own story that could match this part-part-whole. Remember to make the numbers fit the sizes of the bars!

8.