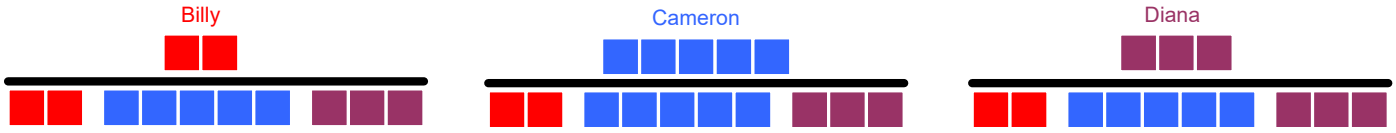
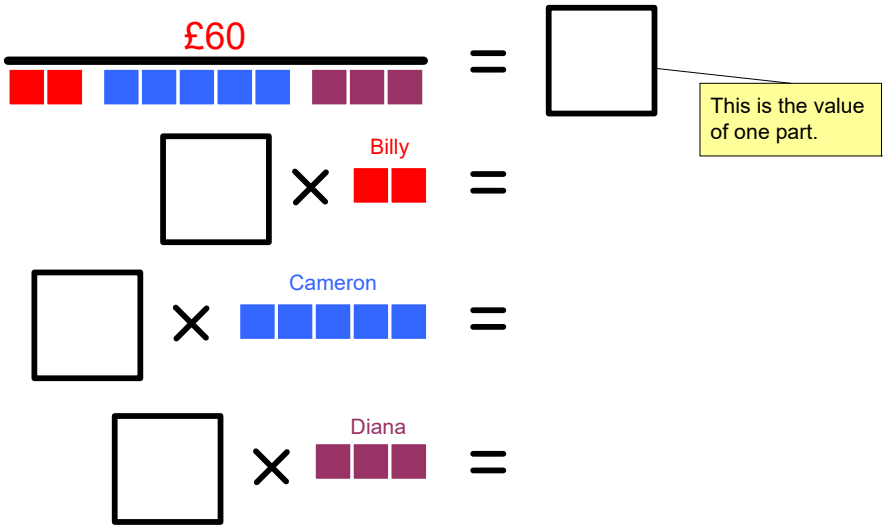
Billy, Cameron and Diana shared some money in the ratio 2:5:3.

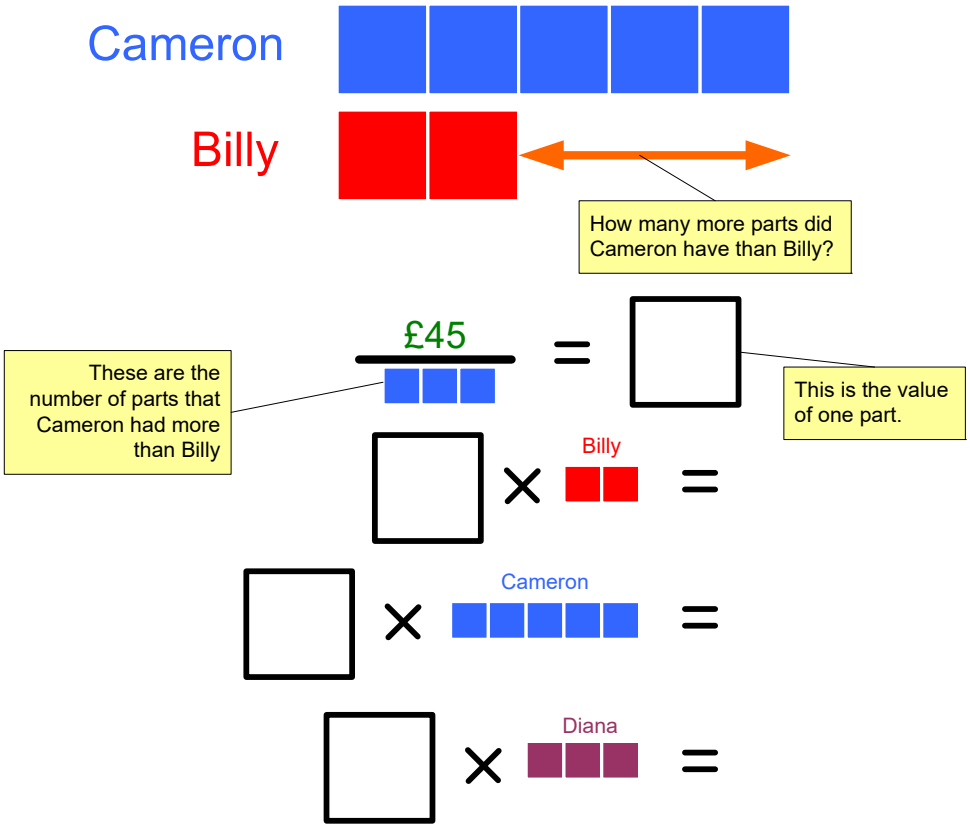
1 Write the fraction of the money that each person received.



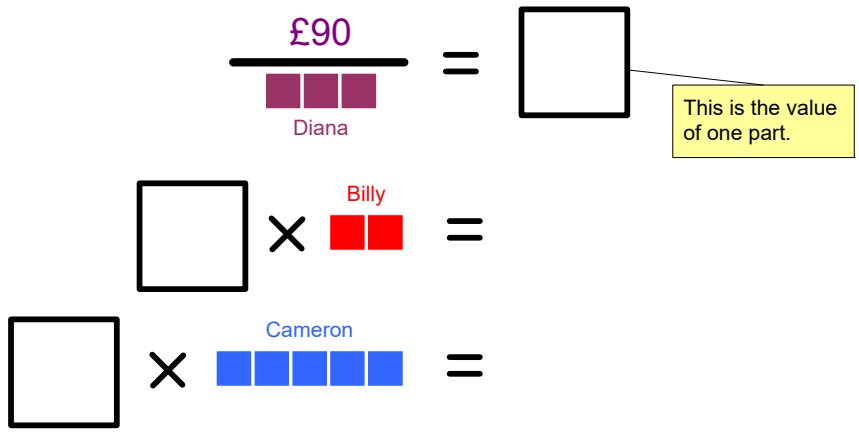
2 Altogether, the three friends shared out £60. How much did each person receive?



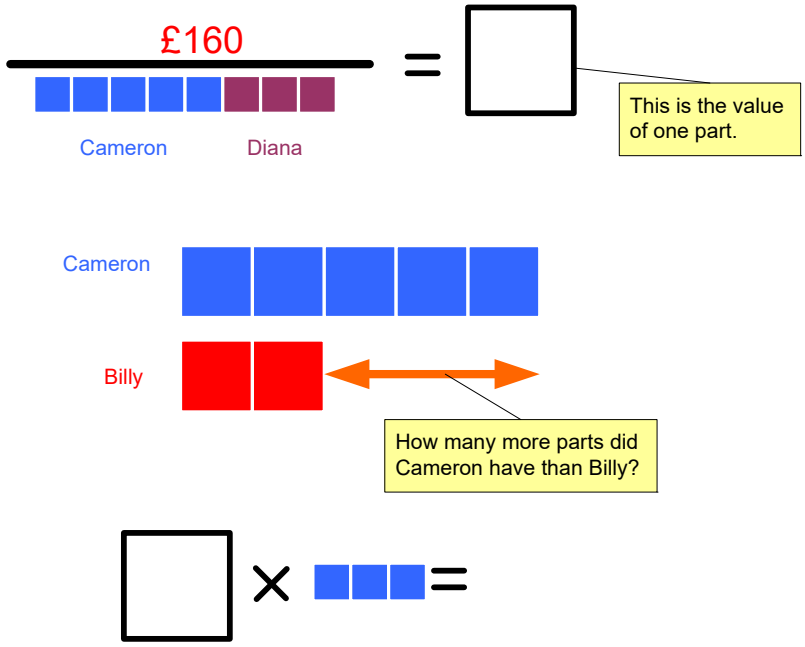
3 Cameron got £45 more than Billy when they shared out the money. How much did each person receive?



4 Diana got £90. How much did Billy and Cameron receive?



5 Cameron and Diana received £160. How much more did Cameron get than Billy?



Ratio

Billy, Charlie and David shared some sweets in the ratio 8:5:7.

1 In the simplest form possible, write these ratios as fractions of the whole amount.
2 Billy got 24 sweets. How many sweets did Charlie and David get?
3 If there were 80 sweets altogether, how many sweets did each person get?
4 Charlie got 36 sweets fewer than Billy. How many sweets did each of the friends get?
5 Billy and David got 75 sweets. How many did each person receive?

To mix a chemical compound, substances A, B, C and D were weighed and used in the ratio 5:2:7:6.

6 160 kg of the chemical compound was needed. How much of each substance was required to make it?
7 A supplier wanted to know what proportions of each chemical they needed to provide in the form of fractions. What fractions of each substance are needed?
8 How much of each substance would be needed to completely use up 24kg of D?
9 The manufacturer found that he had 80kg more of substance C than substance B. How much would the manufacturer need of each substance to use all of his available stock of B and C?
10 How much of C would be needed to totally react to 30kg of substance A?

Joanne, Bryony, Carla and Ebony put together to buy stock for a market stall. The amount of money they put into the fund is in the proportion 3:5:7:8. They share the profits out in the same proportion.

11 What fraction of the total amount of money put into stocking up the stall does each person place?
12 Carla puts £84 into the pot to pay for stock. How much do they pay in altogether?
13 If Ebony put in £60 more than Joanne, how much did each person put into purchasing stock?
14 Altogether, £483 was used to pay for stock. If the stall made a profit of 35%, how much money did each person receive at the end of the day?
15 Bryony put £93 less than Ebony into the pot. How much more than Joanne did Carla put in?

A tulip farm in Amsterdam had red, yellow, orange, blue and purple flowers in the proportion 7:3:4:2:9. Different tulips are sold for different amounts of money. The ratio of the cost of the individual tulips is 12:5:6:9:4.

16 If 200 blue tulips are grown and sold, for how much did the farm sell them?
17 If 1800 purple tulips are sold, for how much did the farm sell the blue tulips?
18 If 150 more orange tulips than blue tulips were sold, how much money did the farm make out of selling the orange and blue tulips?
19 If a total of 25,000 tulips were sold, how much money did the farm make altogether?
20 What fraction of the money was made by each crop of tulips?