

### Ratio with a difference

Joanne, Billy and Charlie spent some money in the shops on Saturday in the proportion 3:5:4. Billy spent £40 more than Joanne. How much did each person spend?

The number of hours that Evie, Sam and Joao worked over one week varied by the proportion 7:4:5. Sam worked 15 hours fewer than Evie. For how long did each person work?

Fred did some baking. The proportion of flour to sugar to rising powder is 6:4:1. The difference between the sugar and raising powder is 360g. How much of each ingredient is needed.

In a cuboid, the relative length of the sides is 3:5:2 for the length, width and height. The cuboid is 44 cm longer than it is wide. What is the volume of the cuboid?

Mary, Mungo and Midge pay rent in the proportion 4:7:5. Midge pays £50 less than Mungo. How much rent do they pay altogether?

Matthew, Brooke and Ella go to watch three different movies. The cost of the movies that they see is in the ratio 6:5:4. Ella's ticket is £4 cheaper than Matthew's. How much do each of them pay to see their film?

Imran, Naveed and Sania do a sponsored run to raise money for MacMillan Nurses. The raise money in the proportion 4:7:5. Naveed raises £12 less than the other two put together. How much does each person raise?

In a test, Billy, Sammy, Joan and Frank score marks in the proportion 4:6:5:7. Frank scores 18 marks more than Billy. How many marks did each person score?

The number of newspapers sold in a week in the towns of Cleckheaton, Dewsbury and Honley is in the proportion 8:5:6. Sales in Cleckheaton outstrip the sales in Honley by 350. How many newspapers are sold each week in Honley?

The number of gun deaths in the USA, UK and Germany is in the proportion 786:17:15. There are 30 more deaths in the UK than in Germany. How many are there in the USA?