Ratio

T2: Percent, Fraction, Ratio comparisons

- Mary, Mungo and Midge lived in a house.
 Each week, Mary spent ³/₄ of her money and saved the rest.
 Mungo saved 45% of her money and saves the rest.
 Midge spends and saves his money in the ratio 3:2.
 Each person saves £300 per week.
 How much does each person earn?
- Alistair, Leah and Charlie lived in a house.
 Each week, Alistair spent ²/₅ of his money and saved the rest.
 Leah saved 35% of her money and saves the rest.
 Charlie spends and saves his money in the ratio 5:4.
 Each person spends £450 per week.
 How much does each person earn?
- 3 Donna, Billy and Alicia run a taxi each.

a For a thirty mile journey, Donna charges £3.50 standing charge and the other 85% of the fare is dependent on the distance of journey. Express this as a ratio in the form 1:n the cost of the fare.

b For the same journey, Billy charges £2.50 for the standing charge and the other $\frac{11}{12}$ ths of the cost is determined by the distance travelled. Express this in the form 1:n and determine the cost of the fare.

c The ratio of standing charge to distance travelled charge that Alicia charges is 18:35. Put this ratio in the form 1:n. If the standing charge is £6, what is the overall cost of the journey in Alicia's taxi?

d Which taxi would you recommend for the 30 mile trip?

A manufacturer distributes its products by lorry.
 Trucks A, B and C are all identical in design and size.
 The ratio of filled space to unfilled space on truck A is 7:9.
 Sixty-eight percent of truck B is filled.
 Truck C is ⁵/₈ full.

The maximum load of each lorry is 12000 kg. How much is each truck carrying?