## Ratio

## T2: Percent, Fraction, Ratio comparisons

1 Mary, Mungo and Midge lived in a house.
Each week, Mary spent $\frac{3}{4}$ 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?

2 Alistair, Leah and Charlie lived in a house.
Each week, Alistair spent $\frac{2}{5}$ 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 dependant 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?

4 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 $\frac{5}{8}$ full.

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

