## Ratio and direct proportion

1. For a certain concrete mixture sand and cement are mixed in the ratio $4: 3$.

In one batch there are 32 bags of sand.
How many bags of cement are required?
2. The ratio of males to females in a club is $2: 5$. If there are 6 male members, how many members are there altogether in the club?
3. Michael \& David win $£ 1600$ on the lottery and are going to split it in the ratio 3:5. How much does each get?
4. Jafar's heart beats at the rate of 84 beats per minute. How many beats will it make in 5 minutes?
5. A jet can cover a distance of 2436 miles in $3 \cdot 5$ hours. What is its rate of travel in miles per hour?
6. Jack drives 400 km in 5 hours. At the same rate, how far could he drive in 8 hours?
7. Paula paid $£ 22$ for 40 litres of petrol. How much would she pay for 47 litres?

