

a) On Monday, 12 people took 5 hours to clean a number of cars.
On Tuesday, 15 people cleaned the same number of cars.

Assuming that all the people worked at the same rate, work out how many hours the 15 people took to clean the cars.

How much work was completed?	$12 \text{ people} \times 5 \text{ hours each} = 60 \text{ hours of work}$
How long would this take with a different number of people?	$60 \text{ hours of work} \div 15 \text{ people} = 4 \text{ hours per person}$

b) On Wednesday, 15 people took 6 hours to clean a number of houses.
On Thursday, 18 people cleaned the same number of houses.

Assuming that all the people worked at the same rate, work out how many hours the 18 people took to clean the houses.

How much work was completed?	$15 \text{ people} \times 6 \text{ hours each} = 90 \text{ hours of work}$
How long would this take with a different number of people?	

c) On Friday, 4 people took 9 hours to paint a fence.
On Saturday, 6 people painted a fence of the same size.

Assuming that all the people worked at the same rate, work out how many hours the 6 people took to paint the fence.

How much work was completed?	
How long would this take with a different number of people?	

d) On Monday, 4 people took 6 hours to digitise a number of books.
On Tuesday, 3 people digitised the same number of books.

Assuming that all the people worked at the same rate, and all books were the same length, work out how many hours the 3 people took to digitise the books.