



# Ratio

## Answers

1

### June 2018 Higher Non-Calc Paper 1

2 In a village

the number of houses and the number of flats are in the ratio 7 : 4

the number of flats and the number of bungalows are in the ratio 8 : 5

There are 50 bungalows in the village.

How many houses are there in the village?

$$H : F : B$$

$$7 : 4 :$$

$$8 : 5$$

$$H : F : B$$

$$\begin{array}{l} \textcircled{1} \quad 14 : 8 : 5 \\ \textcircled{1} \quad 140 : 80 : 50 \end{array} \left. \vphantom{\begin{array}{l} 14 : 8 : 5 \\ 140 : 80 : 50 \end{array}} \right\} \times 10$$

①

140

## Sample B Higher Calc Paper 2

6 On a farm

the number of cows and the number of sheep are in the ratio 6 : 5  
 the number of sheep and the number of pigs are in the ratio 2 : 1

The total number of cows, sheep and pigs on the farm is 189

How many sheep are there on the farm?

$$\begin{array}{l} C : S \qquad S : P \\ 6 : 5 \qquad 2 : 1 \end{array}$$

$$\begin{array}{l} C : S : P \\ 6 : 5 : 2\frac{1}{2} \\ 12 : 10 : 5 \quad \textcircled{1} \end{array}$$

$$12 + 10 + 5 = 27 \quad \textcircled{1}$$

$$189 \div 27 = 7$$

So the number of sheep =

$$10 \times 7 = \underline{\underline{70}} \quad \textcircled{1}$$

(Total for Question 6 is 3 marks)