

S1 Homework 25

1 Calculate:-

a) $\frac{1}{5}$ of 565

b) $\frac{3}{4}$ of 156

c) $\frac{4}{5}$ of 465

d) $\frac{4}{7}$ of 504

2 Write down the largest fraction in each of the following sets and explain why you picked that particular fraction.

a) $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{2}$

b) $\frac{2}{7}$ $\frac{1}{7}$ $\frac{4}{7}$ $\frac{3}{7}$

c) $\frac{2}{4}$ $\frac{3}{8}$ $\frac{9}{16}$ $\frac{5}{10}$

3 A bus takes 2 hours to travel 54km. Calculate its average speed.

4 A car travels at an average speed of 52 mph for four hours. How far has it travelled?

5 How long will it take a cyclist to ride 56miles at an average speed of 8mph?

6 Joy is going to visit her Gran. For the first hour of her journey she averages only 10mph because traffic in the city is very bad. For the next four hours she is on the motorway averaging 60mph. For the last two hours of her journey she is on windy country roads so her average speed for that part of the journey is 40mph. How far is it from Joy's home in the city to her Gran's house in the country?

[IMC 2002 Q3] Alice's room is furnished with three-legged stools and four-legged chairs. There are 17 legs in all (excluding Alice's!). How many three-legged stools are there?