

(1) A bookcase is 1.80 m correct to the nearest 10cm. books are 10cm wide to the nearest 1cm. Bob says he can certainly fit at least 17 books on the shelf. Is he right? (you must show your workings)

(2) Pete drove the work leaving the house at 8am. It took him 30 minutes to the nearest minute to get to work. He worked for 8 hours to the nearest 30 minutes. His drive home took 30 minutes to the nearest minute. He wants to watch the football at 5.15pm. Is he guaranteed to make it in time? (you must show your workings)

(3) A bottle holds 2 litres correct to the nearest 50ml. Cups hold 320ml to the nearest 10 ml.  
Can Fred be assured of getting 6 full cups poured from the bottle?

(4) Speed = Distance ÷ Time  
Fred lives 800miles from John to the nearest 50 miles. Fred drives there and back and it takes 12 hours to the nearest half hour. What is the **difference** between the highest and lowest his average speed could have been?

(5) Here are the members of a gold club

Juniors	Adults	OAP's
230	560	170

The club owner takes a stratified sample by age of 50 members. How many from each age group will be in the sample?

(6) Below are the number of products in a warehouse of each type

Product A	Product B	Product C	Product D
140	220	540	360

(7) The store manager wants to take a sample stratified by type of 200. How many of each product will be in the sample?

(8) Jim carries out a sample stratified by age at his local cake icing club:

a<20	20≤a≤50	a>50
200		100

In the sample there were 40 people under the age of 20 and 10 people from the 20≤a≤50 Category. How many people were in the club altogether?

(9) A sample is taken stratified by age from the local babysitting company below

Infant	Toddler	Child	Teenager
200	150		100

In the sample there were 25 teenagers and 175 people in total. How many Children attended the babysitters?

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