1. Complete all calculations below **without a calculator**.
   __Show all working!__

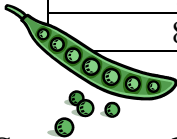   (a) 354 – 2.734   (b) 13.7 ÷ 40   (c) $\frac{2}{3}$ of 480g   [4]

2. The number of peas counted in each of the 100 pods is shown in this frequency table.

Peas in a pod	Frequency	Peas in a pod ✘ Frequency
3	5	15
4	10	40
5	28	140
6	36	
7	12	
8	9	
Total=100		Total =

Copy to complete the table above **and** calculate the mean number of peas in a pod.
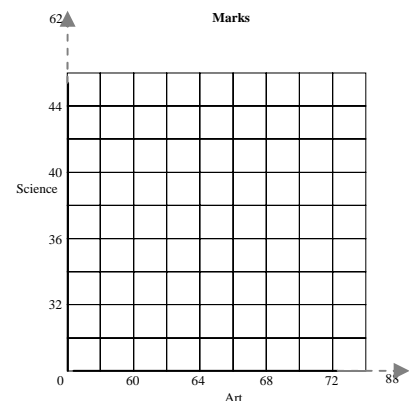[3]

3.   Ten students sat an Art and a Science exam.
       Here are the marks for six of the students:

Art	30	64	68	76	84	88	73	66	80	58
Science	58	61	54	44	36	34	44	52	42	62

   a) Neatly draw a set of axis with the Art scale along to 88 and Science scale up to 62.
   b) Plot the marks on your scattergraph..
   c) Draw a best fitting straight line for this scattergraph.
   d) Karen scored 70 marks in her Art exam. Use your line to estimate the number of marks she scored in the Science exam.
   e) Brian scored 52 in his Science exam but was absent for his Art exam. His teacher estimated his Art mark to be 80. Is this a reasonable estimate?

   [10]

4. 24 girls attend Alan's party. Each girl is wearing a dress and the colours of the dresses are:-
   4 pink   6 red   12 black   2 blue
   a) What is the probability that the next girl Alan dances with will have on a red dress?
   b) What is the probability that the next girl Alan dances with will **not** have on a black dress?   [3]