PHYSICS DEPARTMENT

PHY 111

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12/15

Q1: write the number of significant figures for each of the following numbers:

25001 = 5

3.2500*10^6 = 5

23.54 = 4

3.63 = 3

0.05620 = 4

1.00065 = 6

235.09 = 5

96.9 = 3

Q2: A student obtained the following measurements for the length of the rod, 8.53, 8.26, 8.66, 8.54, 8.68, 8.50, 8.34, 8.46 and 8.56cm. The true value is 8.72cm.

What is the best estimate for the length of the rod? the best → $\bar{x} = 8.50$ cm

Is the result accepted or not? not accepted how?!

Q3: Rewrite the following measurements in the right forms:

4.685±.02568 m → [redacted] 4,685 ± 0,030

98.567±3.598g [redacted] 98,567 ± 3,600

Q4 : CALCULATE these values if a= 568.365±.0261 ,b=14.3689±.0168 ,d=89.56±63.58
e=582*10²±46.87*10³

a+b= [redacted] 568,365 + 14,3689 = 582,734 errors?!

d*e= $89,56 * 582 * 10^2 = 5212 * 10^3$ error?!