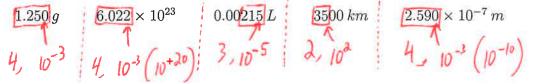
Quiz 1.2 - Measurements and Numbers

Name: Kon

Question 1

Give the total number of significant figures and the position of the least significant digit in each quantity"



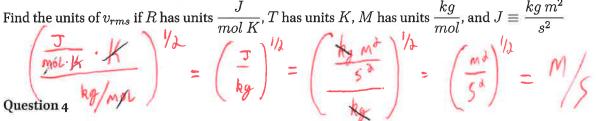
Question 2

Give the solution to each expression with the proper number of significant figures

Give the solution to each expression with the proper number of significant figures
$$x = 23.14 \, cm + 4.105 \, cm$$
 $x = \frac{0.12 \, mol}{1.53 \, L}$ $x = 94 \, \mu s - 8.7 \times 10^{-5} s$ $x = \frac{12.4 \, g + 1.94 \, g}{20.4 \, cm^3 - 3.47 \, cm^3}$ $\sqrt{6.9}$ (where $\sqrt{6.9}$ $\sqrt{6.9$

Question 3

Later in this course we will use the following equation: $v_{rms} = \sqrt{\frac{3RT}{M}}$



Complete the following table:

Decimal Quantity	Scientific Notation	Prefix Notation	
0.0045m	$4.5 \cdot 10^{-3} \text{m}$	4.5 mm	
36,000,000 m	$3.6 \cdot 10^7 m$	36~Mm	
<u>0.000 000 560</u>	$n = 5.60 \times 10^{-7} m$	560 nm - 0r-	0.560 µm