1)	Round each of the following numbers to 3 significant figures.	(Scientific notation is opti	ional on this questio	n)
1)	Round each of the following numbers to 3 significant figures.	(Scientific notation is opti	ionai on uns questio	11,

a) 8265391000 **8270000000** or **8.27x10**⁹ b) 0.00547330 **0.00547** or **5.47x10**⁻³ c) 0.0659822 **0.0660** or **6.60x10**⁻²

How many significant figures are in each of the following numbers?

100 a)

<u>1</u> b) 0.006530

_______ c) 6.626x10⁻³⁴ _______ 4

Put each of the following numbers into scientific notation with the correct number of significant figures.

<u>-5.5267x10³</u> b) 5467000000 <u>5.467x10°</u> c) 0.00005883 <u>5.883x10</u>-5

Perform the following calculations and report your answers with the correct number of significant figures.

0.002354 x 17.917

b) 2500.0 + 1.236 + 367.01

c) $\frac{1}{4.0 \times 10^{-4}}$

2500.**0**

0.04218 or 4.218x10⁻²

2868.2

2500 or 2.5x10³

16.28 - 6.3

 $536 \times 0.3301 \times 60.002$

16.**2**8

10.0

80. or 8.0x10¹

<u>180000 o</u>r 1.8x10⁵

7) The distance from here to Sac City is 22,101,134,889 micrometers. What is this distance in kilometers? (Show your work, sig. figs count!)

22,101,134,889
$$\mu \text{m} \times \frac{1 \text{m}}{1000000 \,\mu \text{m}} \times \frac{1 \,km}{1000 \,\text{m}} = \boxed{22.101134889 \,km}$$