

Practice Exam 6

Name: _____ Period _____ Score _____/100

1. How many significant figures are in each of the following values?

- _____ 300.00
- _____ 7.550
- _____ 0.00500
- _____ 10.010
- _____ 6.02×10^{23}

2. How many significant figures are in each of the following values?

- _____ 300
- _____ 300.
- _____ 3.00×10^3
- _____ 25000
- _____ 25000.00

3. Convert the following number to scientific notation:

0.0000195

Convert the following to an ordinary number:

1.95×10^9

4. Perform the following calculations with respect to significant figures. Circle your answer
(Re-write the problem)

$$1.338 + 13.618 + 11.2751 =$$

$$1.362 - 75.0 =$$

5. Perform the following calculations with respect to significant figures. Circle your answer

$$(6.66 \times 10^{-18}) (7.077 \times 10^{-7}) =$$

$$\frac{(6.5 \times 10^{19})}{(6.66 \times 10^{-18}) (7.077 \times 10^{-7})} =$$

6. USING DIMENSIONAL ANALYSIS, convert 75.0 years to seconds. Report your answer in scientific notation.

7. USING DIMENSIONAL ANALYSIS, convert 835.4g to kg. (As you prepare for Thursday's exam, don't forget to review conversions that you should know by heart.)

8. USING DIMENSIONAL ANALYSIS, convert 25 L to mL. (As you prepare for Thursday's exam, don't forget to review conversions that you should know by heart.)

9. USING DIMENSIONAL ANALYSIS, convert 3.00 miles to inches. Report your answer in scientific notation. 1 mile = 5280 ft

10. USING DIMENSIONAL ANALYSIS and the conversion factors provided on DAY 5's Hwk, convert 7.55 meters to fathoms.