Mathematics Assessment

Sig Fig's count on this test. Highlight your final answer.

Write the following numbers in scientific notation.

1) 156.90 _____ 2) 12 000 ____ 3) 0.0345 ____ 4) 0.008 90 _

Expand the following numbers.

5) 1.23×10^6

7) 1.54×10^4

6) 2.5 x 10 ⁻³ _____

8) 5.67 X 10⁻¹

Solve the following and put your answer in scientific notation.

9) $6.6 \times 10^{-8} =$ 10) $7.4 \times 10^{10} =$ 11) $2.5 \times 10^{8} =$ 7.5 $\times 10^{2} =$ 7.5 $\times 10^{2} =$ 11

12) $(2.67 \times 10^{-3}) - (9.5 \times 10^{-4}) =$ 13) $(1.56 \times 10^{-7}) + (2.43 \times 10^{-8}) =$ _____

14) $(2.5 \times 10^{-6}) \times (3.0 \times 10^{-7}) =$ 15) $(1.2 \times 10^{-9}) \times (1.2 \times 10^{7}) =$

16) $(2.3 \times 10^4) \times (2.0 \times 10^{-3}) =$

Give the number of significant digits in the following measurements.

17) 2.9910 m = ____

Carry out the following problems and give the answer in the correct number of significant digits.

21) 2.674 m = 22) $5.25 \text{ L} \times 1.3 \text{ L} =$ 23) 9.0 cm + 7.66 cm + 5044 cm =

24) 10.07 g - 3.1 g = _____

Solve for **x** in the following problems.

 $25) 3x \div y = 6g \div b$

26) $d = t \div x$

27) $2X^2 \div 3 = dg$

 $28)\ 2\sqrt{x \div c} = y$

Make the following conversions.

29) 4008 g = mg

30) 48 mL = L

31) 239 mm = cm

32) 38 kg = mg

Show all work, label your numbers.

33)	How many seconds are there in 35 days?
34)	How many days are there in 27 236 seconds?
35)	How many quarts are in a 1.00 liter bottle of pop?
36)	Convert 1.53 x 10 ³ km/h into m/s.
37)	Convert 45 m/s into km/h.
38)	Convert 25.6 m/s into mi/h.
39)	How many years are in 3.00 hours?