Science 10
Significant Figures and Metric Conversions

Write the number of the significant figures of the following on the line provided,

1) _____ 670 mg
2) _____0.0045g
3) _____5005.0 cm
4) _____3.250km
5) _____43.050L
6) _____0.345 m
7) _____0.0540g
8) _____300 900L
9) _____ 2.000 cm
10) _____6720.45 m
11) _____50 0000km
12) _____0.0005g

Solve the following mathematical operations and place the answers in the correct number of significant figures.

Add:

13) 12.250 cm + 9.2cm + 7.40 cm =
14) 1.500g + 4.34 g + 0.006 g =
15) 30.63 cm + 6.6 cm + 3.786 cm =

Subtract:

16) 44.373 mg - 0.2mg =
17) 18.527 g – 9.2156 g =
18) 7.00mg – 1.467 mg =

Multiply:

19) 0.444 cm X 52.562 cm =
20) 13 000 cm X 11.54 cm =
21) 7.02 m X 0.143 m X 555.5m =

Divide:

22) 9.8 g / 8.66 mL =
23) 19.8 g / 2.081 mL =
24) 2.50 mi/ 0.04 hr =

Rounding: Round each of the following to 3 and 4SD

25) 3.14159
26) 742 396
27) 0.0028956
28) 2589700
29) 231.45
30) 0.048752