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:**

1. 12.250 cm + 9.2cm + 7.40 cm =
2. 1.500g + 4.34 g + 0.006 g =
3. 30.63 cm + 6.6 cm + 3.786 cm =

**Subtract:**

1. 44.373 mg - 0.2mg =
2. 18.527 g – 9.2156 g =
3. 7.00mg – 1.467 mg =

**Multiply:**

1. 0.444 cm X 52.562 cm =
2. 13,000 cm X 11.54 cm =
3. 7.02 m X 0.143 m X 555.5m =

**Divide:**

1. 9.8 g / 8.66 mL =
2. 19.8 g / 2.081 mL =
3. 2.50 mi/ 0.04 hr =

**Multiply and Divide :**

1. 34.8 x 2.3 =
2. 34.8 / 2.3 =
3. 97.5 x 0.707 =
4. 97.5/0.707 =