

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