

Science 1206

Worksheet 1 - Significant Figures

1. Indicate how many significant figures are there in each of the following numbers:

a. 23.2 cm _____

b. 32.8 m _____

c. 248.3 ml _____

d. 8.0335 cm _____

e. 804.58 kg _____

f. 0.0004898 mm _____

g. 14.00900 km _____

h. 307.456L _____

i. 4500.0 km _____

j. 3.50×10^3 cm _____

k. 0.00300900870 mm _____

l. 1.604×10^{-4} m _____

2. Express the answer to each of the following calculations with the correct number of significant figures.

a. $1.2 \text{ cm} \times 1.3 \text{ cm}$ _____

b. $32.88 \text{ m}^2 \div 4.388 \text{ m}$ _____

c. $2.1 \text{ m} \times 1.8 \text{ m}$ _____

d. $16.5 \text{ km}^2 \div 1.8 \text{ km}$ _____

e. $3.0899 \text{ mm} \times 22.4 \text{ mm}$ _____

f. $0.00826 \text{ cm}^2 \div 0.00033 \text{ cm}$ _____

g. $10.00 \text{ m} \times 84.767 \text{ m}$ _____

h. $3.4500 \text{ cm}^2 \div 450.5 \text{ cm}$ _____

i. $20.8 \text{ m} \times 123.1 \text{ m}$ _____

j. $139.482 \text{ m}^2 \div 68.75 \text{ m}$ _____

k. $5.00 \text{ m} \times .023 \text{ m}$ _____

l. $.0567 \text{ km}^2 \div 123.67 \text{ km}$ _____