

1.1 Scientific Math Review ANSWER KEY

Assignment

Use the information in this section to answer the following questions. When done, check your answers using the key provided.

1. How many sig figs do the following numbers have?
 - a) 1234 _____ **4**
 - b) 0.00120 _____ **3**
 - c) 0.0001 _____ **1**
 - d) 9010.0 _____ **5**
 - e) 8120 _____ **3**
2. Convert the following to scientific notation:
 - a) $0.005 = 5 \times 10^{-3}$
 - b) $0.00080 = 8.0 \times 10^{-4}$
 - c) $502\,000 = 5.02 \times 10^5$
3. Convert the following to standard notation:
 - a) $1.5 \times 10^3 = 1500$
 - b) $3.35 \times 10^{-6} = 0.00000335$
 - c) $3.75 \times 10^1 = 37.5$
4. Perform the following operations and express answers in scientific notation with the correct number of sig figs.
 - a) $1.2 \times 10^5 + 5.35 \times 10^6 = 5.5 \times 10^6$
 - b) $4.3 \times 10^8 \times 2.00 \times 10^6 = 8.6 \times 10^{14}$
 - c) $8.1 \times 10^{-2} / 9.0 \times 10^2 = 9.0 \times 10^{-5}$
5. $4.65\text{ km} = 4650\text{ m}$
6. $8.41\text{ g/mL} = 8.41\text{ Kg/L}$
7. $10095\text{ m/s} = 6.3094\text{ miles/s}$