

Chemistry: Significant Figures — Practice

Simplify the following answers to the least significant figure.

A. 20.4×15.615

B. $20.4 \div 20.4$

C. $\frac{(14.12+6.58) * (\frac{20.5}{6.23})}{16.84 * 7.2}$

Answers

A. $20.4 + 15.615 = 318.546$ (3 sig figures) ans. **319**

B. $20.4 \div 20.4 = 1$ (3 sig figures) ans. **1.00**

C.
$$\frac{(14.12+6.58) * (\frac{20.5}{6.23})}{16.84 * 7.2} = \frac{20.7 * 3.290529695}{121.248} =$$

$$\frac{(2 \text{ dec}) * (3 \text{ sig})}{(2 \text{ sig})} = \frac{20.70 * 3.29}{120} = 0.567525 \quad (2 \text{ sig}) \quad \text{ans. .57}$$