

Skill Practice 5

Significant Figures Practice

Name: _____

Date: _____

1. How many significant figures are in each of the following numbers:

a) 35,000,100
6

b) 3.240×10^{12}
4

c) 200.0
4

d) 0.00020
2

e) 145.40
5

f) 0.03002
4

g) 24,001.0
6

h) 3900
2

i) 0.0045
2

j) 20,000,000,000.0
12

Perform the following operations and give the answers in the correct number of significant figures. If the question is in scientific notation, then please use scientific notation in your answer.

2. $200.00 + 125.2 = \underline{325.2}$

3. $12,020 + 6000 = \underline{18,000}$

4. $0.003450 + 0.0140 = \underline{0.0175}$

5. $0.820 - 0.030 = \underline{0.790}$

6. $(240,900)(120.0) = \underline{28,910,000}$

7. $340/12.5 = \underline{27}$

8. $(2.450 \times 10^6)(2.0 \times 10^6) = \underline{4.9 \times 10^{12}}$

9. $(5.369 \times 10^{12})/(2.89 \times 10^7) = \underline{1.86 \times 10^5}$