

7. 0.00308

7. 1.1×10^{-2}

8. 0.407

8. 1.5×10^6

9. 3140700000

9. 4.67×10^{-2}

10. 0.00715

10. 9×10^4

Determine how many significant figures are in each of the following measurements:

1. 0.0078030 m _____

2. 33.800 g _____

3. 2100.0 N _____

4. 38,500 miles _____

5. 5,000,001 mm _____

6. 7.05 J _____

Round each of the following measurements off so that they each contain 3 significant figures (you may use scientific notation if you prefer):

7. 700.2 g _____

8. 999.9 Hz _____

9. 12.68 cm _____

10. 7,047,011 mg _____

Perform the prescribed operations. Round your answers to the proper number of significant figures. Include the appropriate units in your answer.

11. $92.43 \text{ m} / 5.77 \text{ s} =$ _____

12. $41.34 \text{ g} + 52.482 \text{ g} + 42.9 \text{ g} =$ _____

13. $5.28 \text{ m} \times 12.99 \text{ m} =$ _____

14. $(7.36 \text{ m} / 1.23 \text{ s}) / 3.4 \text{ s} =$ _____

15. $5.28 \text{ V} \times 3 =$ _____