

Chpt 2 rev 7

List the number of sig. Figs. Each measurement has:

- | | | |
|---------------|---------------------------|---------------------|
| 1. 0.005600 m | 2. 340.0 g | 3. 0.0005 ml |
| 4. 3.0001 km | 5. 2.3×10^{16} m | 6. 93,000,000 miles |

Round the following measurements to the number of sig. figs. listed:

- | | | |
|----------------|--------------------------------|-----------------|
| 7. (3) 3.145 m | 8. (1) 9.80665 m/s^2 | 9. (2) 9.9634 m |
| 10. (1) 57 km | 11. (4) 0.00234517 mm | 12. (3) 80966 g |

Perform the following operations using sig. Figs.:

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|---|--|
| 13. $44.98 \text{ g} + 6.9 \text{ g} =$ | 14. $1.235 \text{ kg} \times 0.8 \text{ m/s} =$ |
| 15. $0.9965 \text{ N} \times 1.2 \text{ s} =$ | 16. 0.02 m/s divided by $2.35 \text{ m/s} =$ |
| 17. $35.5 \text{ ml} - 17 \text{ ml} =$ | 18. $0.237 \text{ g} + 2.5 \text{ g} + 13 \text{ g} =$ |

Convert the following:

- | | |
|--|---|
| 19. $3400 \text{ cm} =$ _____ Mm | 20. $0.022 \text{ Gl} =$ _____ ml |
| 21. $344 \text{ m/s} =$ _____ miles/hr | 22. $1100 \text{ ft/s} =$ _____ m/s ... $3.28 \text{ ft} = 1 \text{ m}$ |