

# SIO Sig Figs Answers

1. 670 mg      2 SF
2. 0.0045g    2 SF
3. 5005.0 cm   5 SF
4. 3.250 km    4 SF
5. 43.050 L     5 SF
6. 0.354 m      3 SF
7. 0.0540g     3 SF
8. 300,900 L    4 SF
9. 2.000 cm     4 SF
10. 6720.45m    6 SF
11. 50,000 km    1 SF
12. 0.0005g     1 SF

Add:

$$13. \quad 12.250\text{cm} + 9.2\text{cm} + 7.40\text{cm} \\ \quad \quad \quad 28.9\text{cm}$$

$$14. \quad 1.500\text{g} + 4.34\text{g} + 0.006\text{g} \\ \quad \quad \quad 5.85\text{g}$$

$$15. \quad 30.63\text{cm} + 6.6\text{cm} + 3.786\text{cm} \\ \quad \quad \quad 41.0\text{cm}$$

Subtract:

$$16. \quad 44.373\text{mg} - 0.2\text{mg} \\ \quad \quad \quad 44.2\text{mg}$$

$$17. \quad 18.527\text{g} - 9.2156\text{g} \\ \quad \quad \quad 9.311\text{g}$$

$$18. \quad 7.00\text{mg} - 1.467\text{mg} \\ \quad \quad \quad 5.53\text{mg}$$

Multiply

$$19. \quad 0.444 \text{ cm} \times 52.562 \text{ cm} \\ 23.3 \text{ cm}$$

$$20. \quad 13,000 \text{ cm} \times 11.54 \text{ cm} \\ 1.5 \times 10^5 \text{ cm}$$

$$21. \quad 7.02 \text{ m} \times 0.143 \text{ m} \times 555.5 \text{ m} \\ 558 \text{ m}$$

Divide

$$22. \quad \frac{9.8 \text{ g}}{8.66 \text{ mL}} = 1.1 \text{ g/mL}$$

$$23. \quad \frac{19.8 \text{ g}}{2.08 \text{ mL}} = 9.51 \text{ g/mL}$$

$$24. \quad \frac{2.50 \text{ mi}}{0.04 \text{ hr}} = 6 \times 10^1 \text{ mi/hr}$$

Multiply & Divide

$$25. \quad 34.8 \times 2.3 = 80$$

$$\frac{34.8}{2.3} = 15$$

$$26. \quad 97.5 \times 0.707 = 68.9$$

$$\frac{97.5}{0.707} = 138$$