1. $\dfrac{14 \text{ cm} \left| \dfrac{1 \text{ meter}}{100 \text{ cm}} \right.}{} = 0.14 \text{ meter}$

2. $\dfrac{116.5 \text{ m} \left| \dfrac{1 \text{ km}}{1000 \text{ m}} \right.}{} = 0.1165 \text{ km}$

3. $\dfrac{0.006394 \text{ km} \left| \dfrac{1000 \text{ m}}{1 \text{ km}} \right| \dfrac{100 \text{ cm}}{1 \text{ m}}}{} = 639.4 \text{ cm}$

4. $\dfrac{1.47 \times 10^5 \text{ mm} \left| \dfrac{1 \text{ m}}{1000 \text{ mm}} \right| \dfrac{1 \text{ km}}{1000 \text{ m}}}{} = 0.147 \text{ km}$

5. $\dfrac{138.4 \text{ oz} \left| \dfrac{28.4 \text{ g}}{1 \text{ oz}} \right.}{} = 3930 \text{ g}$

6. $\dfrac{23.6 \text{ feet} \left| \dfrac{12 \text{ in}}{1 \text{ foot}} \right| \dfrac{2.54 \text{ cm}}{1 \text{ in}}}{} = 719 \text{ cm}$

7. $\dfrac{13.6 \text{ L} \left| \dfrac{1.06 \text{ qts}}{1 \text{ L}} \right.}{} = 14.4 \text{ qts}$

8. $\dfrac{8080 \text{ mm} \left| \dfrac{1 \text{ m}}{1000 \text{ mm}} \right| \dfrac{100 \text{ cm}}{1 \text{ m}}}{} = 808 \text{ cm}$

9. $\dfrac{4 \text{ cups}}{2 \text{ cups}} \cdot \dfrac{1 \text{ pint}}{2 \text{ pint}} \cdot \dfrac{1 \text{ qt}}{1.06 \text{ qt}} \cdot \dfrac{1 \text{ liter}}{1 \text{ liter}} \cdot \dfrac{1000 \text{ mL}}{1 \text{ liter}} = 900 \text{ mL}$

10. $\dfrac{0.0055 \text{ qt}}{1.06 \text{ qt}} \cdot \dfrac{1 \text{ liter}}{1 \text{ liter}} \cdot \dfrac{1000 \text{ mL}}{1 \text{ mL}} \cdot \dfrac{1 \text{ cm}^3}{1} = 5.2 \text{ cm}^3$

11. $\dfrac{900 \text{ mL}}{1000 \text{ mL}} \cdot \dfrac{1 \text{ liter}}{1 \text{ liter}} \cdot \dfrac{1.06 \text{ qt}}{1} = 1 \text{ qt}$

12. $\dfrac{2.2 \times 10^3 \text{ dm}}{1 \text{ dm}} \cdot \dfrac{10 \text{ cm}}{2.54 \text{ cm}} \cdot \dfrac{1 \text{ inch}}{12 \text{ in}} \cdot \dfrac{1 \text{ foot}}{5280 \text{ ft}} \cdot \dfrac{1 \text{ mile}}{1} = 0.14 \text{ miles}$

13. $\dfrac{1.10 \times 10^7 \text{ L}}{1 \text{ liter}} \cdot \dfrac{1.06 \text{ qts}}{1 \text{ qt}} \cdot \dfrac{2 \text{ pts}}{1} = 2.33 \times 10^7 \text{ pints}$

14. $\dfrac{5.5 \times 10^{-3} \text{ km}}{1 \text{ km}} \cdot \dfrac{1000 \text{ m}}{1 \text{ m}} \cdot \dfrac{1000 \text{ mm}}{1} = 5.5 \times 10^3 \text{ mm}$

15. $\dfrac{1.00 \times 10^6 \text{ sec}}{60 \text{ sec}} \cdot \dfrac{1 \text{ min}}{60 \text{ min}} \cdot \dfrac{1 \text{ hour}}{24 \text{ hr}} \cdot \dfrac{1 \text{ day}}{1} = 11.6 \text{ days}$

16. $\dfrac{2.2 \times 10^{-3} \text{ mm}}{1000 \text{ mm}} \cdot \dfrac{1 \text{ m}}{1 \text{ m}} \cdot \dfrac{100 \text{ cm}}{2.54 \text{ cm}} \cdot \dfrac{1 \text{ inch}}{1} = 8.7 \times 10^{-5} \text{ in}$

17. $\dfrac{6.02 \times 10^4 \text{ g}}{} \left| \dfrac{1 \text{ kg}}{1000 \text{ g}} \right| \dfrac{2.2 \text{ lbs}}{1 \text{ kg}} = 130 \text{ lbs}$

18. $\dfrac{3.0 \text{ miles}}{} \left| \dfrac{5280 \text{ ft}}{1 \text{ mile}} \right| \dfrac{12 \text{ inch}}{1 \text{ foot}} \left| \dfrac{2.54 \text{ cm}}{1 \text{ in}} \right. = 4.8 \times 10^5 \text{ cm}$

19. $\dfrac{43 \text{ liters}}{} \left| \dfrac{1.06 \text{ qts}}{1 \text{ liter}} \right| \dfrac{1 \text{ gal}}{4 \text{ qts}} = 11 \text{ gallons}$

20. $\dfrac{6.0 \text{ m}}{} \left| \dfrac{100 \text{ cm}}{1 \text{ meter}} \right| \dfrac{1 \text{ inch}}{2.54 \text{ cm}} = 240 \text{ inches}$

21. $\dfrac{20.6 \text{ km}}{1 \text{ hour}} \left| \dfrac{1 \text{ mile}}{1.6 \text{ km}} \right. = 13 \text{ miles/hour}$

22. $\dfrac{3.49 \text{ km}}{1 \text{ hour}} \left| \dfrac{1000 \text{ m}}{1 \text{ km}} \right| \dfrac{1 \text{ hour}}{60 \text{ min}} \left| \dfrac{1 \text{ min}}{60 \text{ sec}} \right. = 0.969 \text{ meters/sec}$

23. $\dfrac{8.05 \times 10^3 \text{ g}}{1 \text{ cm}^3} \left| \dfrac{1 \text{ kg}}{1000 \text{ g}} \right| \dfrac{1000 \text{ cm}^3}{1 \text{ dm}^3} \left| \dfrac{1 \text{ dm}^3}{1 \text{ liter}} \right. = 8.05 \times 10^5 \text{ kg/L}$