

Dimensional Analysis Homework

Name: _____ Date: _____

Directions: Convert each number to its indicated unit.

1. 50 c = _____ qt

2. 190 mm = _____ dm

3. 32 gal = _____ fl oz

4. 1.42 kg = _____ hg

5. 40 oz = _____ lb

6. 700 in = _____ yd

7. 1,400 L = _____ cL

8. 52 pt = _____ qt

9. 1 week = _____ min

10. 2 miles = _____ inches

11. 20000 cm = _____ km

12. 21 fl oz = _____ pints

13. 5 L = _____ mL

14. 1 day = _____ sec

Directions: Complete each statement with <, >, or =.

15. 13.5 hg 1.2 kg

16. 2,400 lb 1.2 T

17. If a four day car rental cost \$284 how much would it cost per day?

18. If Alex can run 3.5 miles in 30 minutes, how many miles is Alex running per minute?

19. You are throwing a pizza party for 15 people and figure that each person will eat four slices. You call the pizza place and learn that each pizza will cost you \$14.78 and will be cut into 12 slices. How much is the pizza going to cost you?

20. Decide which is a better buy: \$25.00 for concert tickets for two people or \$36 for concert tickets for three people

Directions: Circle the best answer for each multiple choice question below.

21. Which of the following weights would be the most accurate weight for a medium-sized dog?

a. $\frac{1}{20}$ T

b. 640 oz

c. 120 oz

d. $\frac{1}{10}$ T

22. The Mayo Clinic recommends that the average female should drink 2.2L of water per day and the average male should drink 3L of water per day. A water bottle measures in mL only. Which of the amounts below shows the correct amount of mL a male should be drinking with this water bottle?

a. 0.003 mL

b. 3000 mL

c. 0.0022 mL

d. 2200 mL