Name: _____   Class: _____   Date: _____

SHOW WORK to recieve full credit. All answers must include the proper units. Decimal answers should contain 3 significant figures.

1. Convert 64 in. to ft. (Write answer as a proper fraction)

   1. _____

2. Convert $2\frac{1}{3}$ yd. to in. (Write answer as a proper fraction)

   2. _____

3. Convert 36 oz. to lbs. (Write answer as a proper fraction)

   3. _____

4. Convert $2\frac{1}{4}$ gal. to qt. (Write answer as a proper fraction)

   4. _____

5. Convert 20 fl oz. to pt. (Write answer as a proper fraction)

   5. _____

6. Convert 3 days to seconds. (Write answer as a decimal)

   6. _____

7. Convert $6\frac{1}{4}$ days to minutes.

   7. _____

8. Convert 9 pt. to _____qt. _____pt.

                                                  8. _____

9. Convert 9000 lb to _____tons _____lb.

                                                  9. _____

10. Addition: 10. _____

    9 ft 11 in
  + 3 ft 6 in

11. Subtraction: 11. _____

    7 lb 5 oz
  − 3 lb 8 oz

12. $3\frac{1}{2}$ pt ×5 (Write answer as a proper fraction)

                                               12. _____

13. Division: 13. _____

    $2\sqrt{5 \text{ ft}\quad 4 \text{ in}}$

14. Addition: 14. _____

    5 lb 12 oz
  + 6 lb 6 0z

15. Multiplication:

    3 lb 6 oz

   $\times$ 4

15. _____

16. Subtraction: (Write answer as a proper fraction)

$$6\frac{3}{8} \text{ lb}$$

$$-2\frac{5}{6} \text{ lb}$$

16. _____

17. Division: (Write answer as a proper fraction)

$$12\frac{1}{2} \text{ in } \div 3$$

17. _____

18. Convert 42 cm to mm. (Write answer as a decimal)

18. _____

19. Convert 0.975 m to cm. (Write answer as a decimal)

19. _____

20. Convert 150 cg to kg. (Write answer as a decimal)

20. _____

21. Convert 450 mL to hL. (Write answer as a decimal)

21. _____

22. Convert 1 kg 47 g to _____kg

22. _____

23. Convert 15 lbs to kg. (Write answer as a decimal)

23. _____

24. Convert 5 km to miles. (Write answer as a decimal)

24. _____

25. Convert 10 miles to cm. (Write answer as a decimal)

25. _____

26. Convert 14.3 gal. to L. (Write answer as a decimal)

26. _____

27. Convert 30 mi/hr to km/hr. (Write answer as a decimal)

27. _____

28. Convert 250.0 g/mL to lbs/gal. (Write answer as a decimal)

28. _____

29. Convert 150 m/s to km/hr. (Write answer as a decimal)

29. ⎯⎯⎯⎯⎯⎯⎯⎯

30. A 4 × 4 kitchen tiles weighs 7 oz. Find the weight (in pounds) of a package of 144 tiles. (Write answer as a decimal)

30. ⎯⎯⎯⎯⎯⎯⎯⎯

31. Jay gave a chemistry exam yesterday that was 20 pages long! (Don't you feel lucky that your math exam is not 20 pages long!) Each page of the exam takes 30 seconds to grade. How many hours will it take Jay to grade 15 chemistry exams? (Write answer as a decimal)

31. ⎯⎯⎯⎯⎯⎯⎯⎯

32. Joe is throwing a Super Bowl party! He is expecting 500 guests (it is a BIG party). Each guest is expected to eat 3 hot-dogs. Each hot-dog requires 2 fl. oz. of ketchup to eat. A king sized bottle of ketchup contains 64 pts of ketchup. How many bottles of ketchup should Joe buy? (Write answer as a whole number)

32. ⎯⎯⎯⎯⎯⎯⎯⎯

33. A flu vaccine requires a 5 mL dose to be given per person. If a hospital orders 15 L of vaccine, how many people can immunized? (Write answer as a whole number)

33. ⎯⎯⎯⎯⎯⎯⎯⎯

34. A chemistry experiment requires 50 mL of solution per student to perform. How many liters of solution should be ordered if there are 4 chemistry classes with 25 students in each class? Round to the nearest whole liter.

34. _____

35. A box of candy bars contains 24 snickers bars. Each Snickers bar weighs 50 grams. How many kilograms does 10 boxes of cany bars wiegh? (Write answer as a decimal)

35. _____

36. Gas in Europe costs 12.00 Euro's per liter. The exchange rate is 1.8 Euro's is equal to 1 dollar. What is the price of gas in the United states in dollars per gallon? (Write answer as a decimal)

36. _____

37. Concrete blocks are stacked 25 blocks per pallet. Each concrete block weighs 50 kilograms. How many tons of concrete can a semi-truck haul if it holds 25 pallets? (Write answer as a decimal)

37. _____

38. Jay has invented 3-sided dice. Answer the following questions about the probability associated with rolling two of them.

   (a) List all the probably outcomes of rolling two 3-sided dice.

   (b) What is the probability of rolling an even number?   38(b) _____

   (c) What is the probability of rolling an odd number?   38(c) _____

   (d) What is the probability of rolling a 5?   38(d) _____

   (e) What is the probability of rolling a number less than or equal to 3?   38(e) _____

39. 3 red balls, 3 green balls, and 6 blue balls are placed in a box. If you reach in and pull out a ball, what is the probability that the ball is red?

                                                                              39. _____

40. All the letters in the alphabet are placed in a box. What is the probability that you will draw a vowel (a,e,i,o,u,y)?

                                                                              40. _____