MATH SURVEY

Directions: Work each problem. Reduce all common fractions to lowest terms.

1. 874
    953
    541
 + 809

2. 568
 x 407

3. $98.50 + $76 + $48.05 + $9 =

4. 0.409
 x 0.960

5. 2 1/6
 + 7 1/3

6. 15
 x 6 1/8

7.   4 lb 3oz
 + 12 lb 13 oz

8. Change 0.80 to a fraction. _____

9. Select the number that has the greatest value.
0.3047   0.3470   3.047

10. What is 4 percent of 150? _____

11. 12 ¼ - 6 ½

12. Change 20% to a fraction.

13. Change 45/90 to a percent.

14. 60% of the parts in a lot are blue. If there are 135 blue parts, how many total parts are in the lot?

15. The time now is 11:45. What will the time be 4 hours and 18 minutes from now?

16. 9 ÷ ¾ = _____

17. How many seconds are there in a day?

18. What is the average of the following numbers?
     1344
     1567
     1432
     1567

19. The above numbers represent daily production of a certain part. How many parts would need to be produced on the next day to make a 5-day average of 1480? _____

Proportions

1.   One idler gear weighs 1.3 pounds. If you had 336 idler gears in a box, how much would the box weigh?

2.   One gallon of oil weighs 6 pounds. How much does a quart weigh?

3.   How much does 24 quarts of oil weigh?

4.   If you had a solution of 60% water and 40% malt syrup and a tank is filled with 320 gallons of solution, how much malt syrup is in it?

5.   If a machine can make 2880 parts in 48 hours, how many were made in one hour?

6.   If a machine can make 450 parts per hour, how many can it make in a 40 hour work week.

7.   One inch is 2.54 cm. How many cm. are in 8 inches?

8.   A pallet loaded with 12 cartons weighs 640 pounds.   How much does each carton weigh?

9.   60% of 30 gallons is how many gallons?

10.   365 is what percent of 886?

11.   If you had a solution of 60% water and 40 % malt syrup and you use a 30 gallon drum of malt syrup, how many gallons of water would you add?

12.   If you have a 1200 gallon mixing vessel and must make a 60% water and 40% malt syrup solution, how many gallons of malt syrup do you take from the stockroom?