Name _____

Seventh Grade Math, First Semester

Assignment Eight

(Work to be submitted)

26 Points

MATCHING: Compare the fractions from Column B to the given percents in Column A. Match the fractions that are the closest values of the given percents. Not all fractions will be used. (1 points)

Column A

1. ___ 41%
2. ___ 23%
3. ___ 98%
4. ___ 67%
5. ___ 34%
6. ___ 12%
7. ___ 48%
8. ___ 76%

Column B

A. $\frac{3}{10}$	E. $\frac{2}{3}$	I. $\frac{9}{10}$
B. $\frac{1}{2}$	F. $\frac{1}{3}$	J. $\frac{4}{5}$
C. $\frac{1}{4}$	G. $\frac{1}{10}$	K. $\frac{2}{5}$
D. $\frac{5}{5}$	H. $\frac{3}{4}$	

GENERAL QUESTIONS.

Express each fraction as a percent. (1 point each)

9. $\frac{7}{8}$

10. $\frac{6}{50}$

Express each percent or decimal as a fraction in simplest form. (1 point each)

11. 54%

12. 0.22

Using <, >, and =, compare the following. (1 point each)

13. $\frac{5}{12}$ _____ $\frac{1}{2}$

14. $\frac{2}{3}$ _____ $\frac{4}{7}$

APPLY, ANALYZE AND EVALUATE.

15. A local restaurant is offering a free meal to every 25th customer and a free hat to every 12th customer. Which customer will be the <u>first</u> to get both a free meal and a free hat? (3 points)

16. Design a figure with the same percentage of area covered as the shaded object in figure 1. Place your shaded figure in the space provided in Figure 2. Do not use a figure with all right angles (square corners). (3 points)

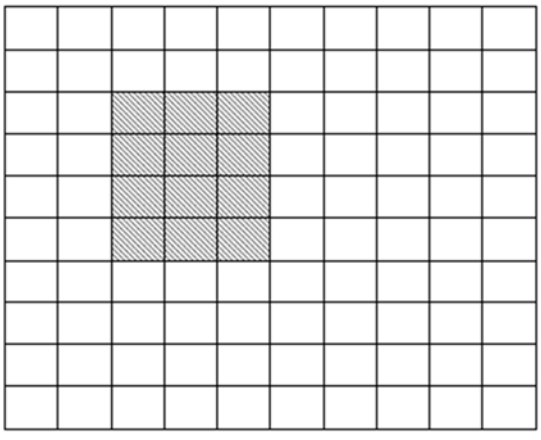

Figure 1

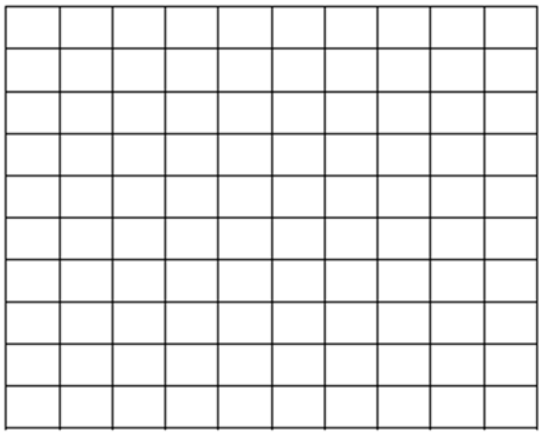

Figure 2

17. Show or explain why 0.5% is not equal to $\frac{1}{2}$. (2 points)

18. Tommy is thinking about entering a contest at the local gas station. Some of Tommy's friends explained to him that the probability of winning the free tank of gas was 0.27. Tommy understands probabilities better when they are given in ratio form. (For example 1 out of every 6 will win). (1 point each)

a. Give Tommy your <u>estimate</u> of 0.27 probability in ratio form.

b. What is the <u>exact</u> percent value of 0.27 probability?

c. What is the probability (in any form) that Tommy <u>won't</u> win?

19. Which is the better deal - \$0.20 off of every dollar or $\frac{1}{4}$ off every dollar? (1 point)