1. Change
   a) 0.02 % to a decimal = _____________
   b) to a fraction in simplest form 2.4 % = _________
   c) \( \frac{2}{7} \) to a percent in fraction form (simplest) = _______________ %

2. Find the solution of each statement.
   a) 54 is what percent of 270? _________________
   b) 82 is 20.5 % of what number? _________
   c) 24 ¼ % of all students that enroll in developmental math for the first time must enroll a second time.

3. Your budget looks like this
   24 % bills
   55 % tuition and books
   27 % food and essentials
   x % for FUN

   What percent of your budget goes towards FUN? ____________

   If your beginning amount was $5000, then how much did you spend on tuition and books? ____________

4. An item sells for $245, you reduce it by 10 % of its original price and after not being able to sell it for another week, you reduce it by 15 % of its reduced price, what is its final selling price?

   By what percent have your reduced from the original selling price?
5. The cost to purchase a TV set is $420. The merchant wishes to make a 15% profit. What should he sell the TV for.

6. If a dress has a markdown price of $42 after being reduced by 25% of its original price, What was the original price of the dress?

7. Current trends predict an increase of 0.1% in enrollment at MU University. If the current enrollment is 4000, then what will the size of the student population be next year?

8. An employee can purchase items for his personal use at his place of employment at a 10% reduced rate. He then has to pay an 8% tax on his purchases. Last week this employee purchased a telephone for $220, a dishwasher for $620, and a set of four tires for $380.

          How much did he have to pay? ________________

9. A man deposits $240 into an account that pays 4% simple interest per year. What will be the value of the account at the end of

   a) 9 months? ________________

   b) 42 months? ____________

10. You want to have $2500 at the end of 18 months for a down payment on a car. How much should you deposit now so that at the end of the 18 months you will have the full $2500. The account earns 3 ½% per year simple interest.

11. A repossessed mobile home is advertised as being reduced by 60% of the original price. It currently sells for $24,000. By what amount was the price of the home reduced?
12. Fill in the blank.

a) Two vertical angles are ___________ equal ( always, sometimes, never )

b) When two angles are supplementary, their measures will add up to __________

c) If the measures of two angles add up to $90^\circ$, we say the angles are ________________

d) Two lines are said to be _______________ if they meet at right angles

e) If the measures of two adjacent angles add up to $180^\circ$, then the angles form a ________________

f) An angle is said to be a right angle if ____________________________

g) If the measure of angle $A$ is less than $90^\circ$, we say that angle $A$ is ________________

h) An obtuse angle will always be an angle with measure ________________

13. (13/541)

14. #19/542

15. (#28/542)

16. (#31/542)

17. (#34/543)

18. (#45/544)

19. (#51/545)

20. (#53/545)
21. #2/557  
22. #8/557  
23. #12/557  
24. #15/557  
25. #23/557  
26. #39/559  
27. #44/559  
28. 46/559  

Other problems to look at:

page 560-561: 49, 53, 58, 61, 68, 77, 86

For Testing Purposes: chapter 8 and chapter 9 up to 9.2 -

Fifth exam will cover chapter 9 and 10 : optional