

Show all work. You may collaborate on this first homework/quiz. Henceforth, Quizzes will be in-class and on your own. Homework will be accessed thru the website.

1.  $10.3 - 6x = -2.3$

2.  $-4(3n - 2) - n = -11(n - 1)$

3.  $\frac{3}{8} + \frac{b}{3} = \frac{5}{12}$

4. A book costs \$8 with tax. If the sales tax rate is 5%, what was the price of the book *before* sales tax?

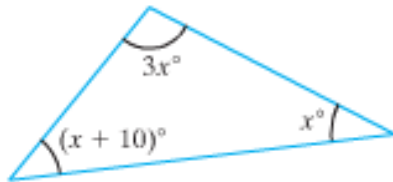
5. Suppose a book store gives every item a 17% discount at the checkout counter. What's the discount price of a book whose original price (*before* the discount) is \$8?

6. A second number is five times a first number. A third number is 100 more than the first number. If the sum of the three numbers is 415, find the numbers.

7. In a recent survey, 15% of online shoppers in the U.S. say that they prefer to do business only with large, well-known companies. In a group of 1500 online shoppers, how many are willing to do business with any size business?

10. Solve for  $L$ .  
 $P = 2W + 2L$

8. Use the diagram to find the unknown angle measure:



11. Find the balance  $A$  if \$3500 is invested at an annual percentage rate of 3% for 10 years, if interest is compounded daily.

9. The sum of three consecutive odd integers is 327. Find the integers.  
(Let  $x$  = the first odd integer)

12. One-foot-square ceiling tiles are sold in packages of 50. Find how many packages must be bought for a rectangular ceiling 18 feet by 12 feet.