Math 90. Homework Assignment
Bittinger, et al. , "Beginning & Intermediate Algebra 1/E"   NAME:_____
Please attach this sheet to the front of your homework packet. Due at TEST 1.

Sec 1.1
Read Section 1.1 and answer these questions:

1. What is the difference between an 'algebraic expression' and an 'algebraic equation' ? Give an example of each.

2. What algebraic operation is required for each of these phrases (that is: add, subtract, multiply or divide).
    a. increased by:
    b. twice:
    c. ratio of:

3. Draw a picture illustrating the word problem in Example 9 (page 7). Label the picture with the significant numerical information given in the problem.

Do the following problems from your text book.
Sec 1.1: 14 to 24, even; 26, 28; 30 to 54 even.

Sec 1.2
Read Section 1.2 and answer these questions:
1.   Write an expression equivalent to $x + x + x$.

2.   Write a short sentence describing The Commutative Law of Addition .

3.   Give an example of the Associative Law of Multiplication.

4.   Give an example of the Distributive law.

5.   What is the name for the reverse of the Distributive Law?

Do the following problems from your text book.
Sec 1.2: 14, 24, 28, 34, 47, 51, 55, 56, 62, 66, 69 to 80

Sec 1.3: Read Section 1.3 and answer these questions:
1. List the first 5 prime numbers.

2. In a fraction, what is the top number called?_____.
    What is the bottom number called:_____

3. What is a requirement when adding fractions?

DO THESE PROBLEMS:
Sec 1.3: 19, 25,35,44,50,53,56,59,62,65,68,74,77,81,83

Sec 1.4: Review Section 1.4 and answer these questions:
1.   What is the definition of a rational number?
2.   Give an example of an irrational number,
3.   What is the set of integers?
4.   Give an example of a repeating decimal.
5.   What is meant by the phrase 'absolute value'?

DO THESE PROBLEMS:
Sec 1.4: 6 to 14 even; 16, 18; 20 to 32 even; 38 to 48 even; 56 to 66 even

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Sec 1.5: Review Section 1.5 and answer these questions:
   1.   What is a good way of adding a series of numbers some of which are positive while others are
            negative?

   2.   What is a requirement to combine like terms when the terms include variable factors?

DO THESE PROBLEMS:
Sec 1.5: 7,13,25,31,33,41,47,51,53,64,66,69,73,75,79,80,81,85

Sec 1.6: Review Section 1.6 and answer these questions:

   1.   What is meant by 'the opposite' of a number?

   2.   State the Law of Opposites.

   3.   Subtracting is really the addition of two numbers one of which has what algebraic sign?

Do these Problems:
Sec 1.6: 25,28,30, 31.33,47,49,55,61,62,67,90,97,98,101,104,105,109,115,120,127,134

Sec 1.7:Review Section 1.7 and answer these questions:

   1.   The product of a negative number and a positive number is_____.

   2.   The product of a negative number and a negative number is_____.

   3.   Write an equivalent expression for a÷b but do not use the division symbol.

   4.   Write two equivalent expressions for $\dfrac{-a}{b}$

   5.   What is the quotient of $\dfrac{6}{0}$?

Do these Problems:
Sec 1.7:11,27,35,37,41,45,51,52,57,26,63,73,74,89,91,105

Sec 1.8: Review Section 1.8 and answer these questions:
   1.   Write an equivalent expression for $x \bullet x \bullet x \bullet x \bullet x$

   2.   What is meant by 'order of operations'?

   3.   List the five grouping symbols.

Do these Problems:
Sec 1.8: 3-9 odd; 11-55, odd; 59-65, odd; 73, 77, 79, 84-90, 93, 97