ACF 92
HOMEWORK WORKSHEET #14

• The final answers must go on the “Homework Answer Sheet”.
• To receive credit, STAPLE the work for each problem to the answer sheet. NO WORK, NO CREDIT!!
• The work for the problems should be neat and clearly numbered. Sloppy work will not be accepted.
• You are strongly advised to get help in study group or tutorial sessions if you are having difficulty in answering the problems.
• Late Homework will NOT be accepted!!

DIRECTIONS:
- Write money in proper form.
- Reduce fractions/ratios to lowest terms.
- Round decimals to the nearest cent/hundredths.

Perform the indicated operations. Show each step. Final answers must be written as a fraction.

1) \((-8)^2 ÷ -4 \cdot -8 ÷ -2 - 3(-1)^5\)

2) \(\frac{1}{2}(8 + 4) - \frac{2}{3}(4 + 8) + \left(\frac{-1}{2}\right)^2\)

Evaluate. Let \(x = 2, \ y = -1, \ z = -3, \ a = 0.5, \ b = -\frac{1}{4}\)

3) \(x - y - z\)

4) \(y + x ÷ z(a + b)\)

Simplify each expression.

5) \(7a + 3(5a + 3b - 5) + 6b - 10\)

6) \(\frac{1}{2}(6x - 2) - \frac{2}{3}(9x + \frac{3}{2})\)

Solve each equation. Check your solutions.

7) \(-39 = -13x\)

8) \(-11 + 9x = 34\)

9) \(x - \frac{4}{9} = \frac{2}{9}\)

10) \(\frac{2}{7}x = -5\)

11) \(3x + 8 = 6x - 7\)

12) \(8 - 7x = 11x + 24\)

13) \(6 = \frac{1}{2}x - 3\)

14) \(15 = 2.3x - 16.3x\)

15) \(4(7x - 10) = 2(14x + 36)\)

16) \(\frac{1}{2}(16x - 4) = \frac{1}{5}(15x - 5)\)

17) \(12 - 5x - 21 = 6x + 12 - 4x\)

18) \(4 - x = 6(2x - 8) + 18\)