ACF 92
HOMEWORK WORKSHEET #1

• 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.

PART I. Given the set of numbers

\[ A = \{23, \ 2.58345276..., \ \sqrt{11}, \ \frac{25}{2}, \ 24.2424..., \ -125, \ \pi, \ -3\frac{3}{4}, \ 0, \ \frac{1}{3}, \ 0.8\} \]

List the numbers in the set that are:

1) Whole numbers
2) Integers
3) Rational numbers
4) Irrational numbers
5) Real numbers

PART II. Write if each statement is true or false.

6) 11 is a whole number, an integer, a rational number, and a real number.

7) 0.25 is a whole number.

8) All integers are real numbers.

9) –10 is an integer and an irrational number.

10) A repeating decimal is an irrational number.

\[ \frac{2}{3} \]

11) \( \frac{2}{3} \) is a rational number and an irrational number.

12) 1.515151… is an irrational number.
Part III: Use the following whole number to answer each question.

43,152,967,804

13) What is the place value of the digit 2?  

14) Round the number to the nearest tens.

15) Round the number to the nearest billions.  

16) What is the place value of the digit 7?

17) Which digit is in the hundred thousand place value?

18) Round the number to the nearest millions.

Part IV:  

a) Write the arithmetic expression.  

b) Find each answer.

19) Find the sum of 60600 and 3087 and 9.  

20) Find the product of 7800 and 100 and 5.

21) Find the difference of 58900 and 12093.  

22) Find the quotient of 7653 and 3.

Part V: Refer to the Study Skills Website. Your response should be proofread for grammar and spelling errors.

23) Carol is in a developmental math class. She feels that math is her weakness and she will never do well. What are some things Carol can do to motivate herself so that she will succeed in her math classes? (3 pts)