ACF 92
HOMEWORK WORKSHEET #7

• 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.

Find each answer. Reduce all fractions to lowest terms.

1) Write the following numbers in ascending order.
   \[-\frac{13}{3}, \quad 2\frac{4}{5}, \quad 5\frac{6}{7}, \quad 3\frac{37}{8}, \quad 2\frac{4}{8}, \quad 5\frac{5}{9}, \quad -4\frac{1}{2}\]

2) All 25,000 tickets were sold for a soccer game. Because of rainy weather only 20,400 actually attended the game. What fraction of the fans were "no-shows"?

3) A share of LetCo stock sells for \(14\frac{3}{5}\) dollars. How much would 95 shares of the stock cost?

4) You are instructed to expose a photographic plate for \(\frac{8}{35}\) second at one setting, and then for \(1\frac{4}{5}\) second at another setting. To create a special effect, you can expose the plate for an additional \(\frac{9}{7}\) second using a special lens. What would the total amount of exposure be in that case?

5) Lenny weighed \(110\frac{2}{5}\) pounds at the age of 14 and \(165\frac{3}{4}\) pounds at age 18. How much did he gain in the 4 years?

6) A wood screw advances \(\frac{1}{18}\) inch for each complete turn. How far will the screw advance in 12 complete turns?

7) As a telemarketer, Henry gets paid $9 an hour for a 35-hour week and \(1\frac{1}{2}\) times that rate for any hours worked over 35 hours. Henry worked a total of 40 hours in one week? How much was his total take-home pay?
8) The hot air ducts for your apartment has the following measurements. Ducts B and C serve the bedroom and are \(\frac{6}{8}\) feet long and \(7\frac{3}{4}\) feet long, respectively. Ducts D and E serve the kitchen and living room; duct D is twice the length of duct B and C combined and duct E is \(2\frac{1}{2}\) feet longer than duct C. The main duct, duct A, is twelve feet less than the four others combined.

a) What is the total length of ducts B and D combined?

b) What is the total length of ducts C and E combined?

c) What is the length of duct A?

9) How many \(4\frac{1}{2}\) feet pieces of rope can be cut from a 54 feet coil of rope?

10) Mr. Norris bought 30 pounds of peanuts and wanted to use \(\frac{1}{4}\) of this amount for his famous chocolate and peanut butter cookies. How many pounds of peanuts will he use for the cookie recipe?

11) You are building a tool shed. You have ordered 20 one-by-fours, each 9 feet long. The cost of the one-by-fours is 35 \(\frac{1}{2}\) cents per linear foot. How much will the entire lumber order cost?

12) A pole is 20 feet long. If \(\frac{5}{8}\) of the pole is underground, then how many feet of the pole are above ground?

13) The roasting time for a 16 to 20 pound turkey is \(\frac{1}{4}\) hour per pound. How long will it take to roast a 16 \(\frac{1}{2}\) pound turkey?

14) On a trip of 2424 miles, you filled up the gas tank four times with \(14\frac{1}{5}\) gallons, \(15\frac{1}{2}\) gallons, \(16\frac{1}{2}\) gallons, and \(14\frac{2}{5}\) gallons. How many miles did your car travel per gallon of gas?

15) Four hundred twenty students voted for president of the student government. If \(\frac{3}{5}\) of these students voted for Jennifer Lopez, how many students voted for the opponent, Brittany Spears?

16) A recipe for “make your mouth burn” chili yields 8 servings and uses 2 \(\frac{3}{4}\) pounds of ground beef. Chef Caliente was asked to make his famous chili for a charity picnic in which 200 people are expected to attend. How many pounds of ground beef does he need to order?