ACF 92

HOMEWORK WORKSHEET #10

• 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.

1) A piggy bank contains 15 nickels, 28 dimes, and 12 quarters. Find the reduced ratio of the monetary value of dimes to total value of money in the piggy bank.

2) Write the following ratios as a fraction and reduce.
   a) \( \frac{14 \frac{1}{2}}{2} \) inches to \( \frac{7 \frac{3}{4}}{4} \) inches
   b) 65 feet to 32.5 yards (3 ft = 1 yd)

3) Determine the better buy:
   Brand A cat food: 5-pound bag for $4.59 or Brand B cat food: 20-pound bag for $13.49

4) You are a production supervisor for a company that manufactures alarm clocks. During one shift, 110 of the alarm clocks were in working order, and 5 alarm clocks were defective. What is the ratio of the number of defective alarm clocks to the total number of alarm clocks manufactured?

5) For each $4 that Aida earns, Rob earns $5. How much does Rob earn in a week if Aida earns $780 per week?

6) If Pragna can read 8 pages in 24 minutes, how many pages can she read in 3 hours?

7) A national market survey determined that for every 4 people who like action movies, 3 people do not like them. A survey in your town indicated that 640 people liked the newly released action movie. About how many people in the local survey did not like the action movie?

8) The personnel manager of a company knows that for every $250,000 worth of contracts awarded to the company, it is necessary to hire 13 construction workers and 2 supervisors. The company recently received a contract for $27,000,000.
   a) How many construction workers will need to be hired?
   b) How many supervisors will need to be hired?
9) An office uses 5 boxes of envelopes every 3 weeks. Find how many boxes should be purchased to last a year?

10) A company survey showed that 5 out of every 8 employee wanted medical benefits. If a company has 2048 employees, how many employees did not want the medical benefits?

11) A nurse prepares a certain mixture by using 3 cc of water with 7 cc of medicine. How much water should he use with 98 cc of medicine?

12) The ratio of adults to children at a circus is 7 to 8. If there are 808 children at the circus, what is the total number of people at the circus?

13) Eleven out of every 25 greeting cards sold in the United States are Hallmark brand cards. A Hallmark card costs, on average, $2.99. If a store sold 300 greeting cards in one day, how much money did the store take in on Hallmark cards?