GENERAL PROBLEMS

1. A piece of wire x feet in length is cut into exactly 6 pieces, each 2 feet 4 inches in length. What is the value of x? (1 foot = 12 inches)
    A. 12 1/3
    B. 12 ½
    C. 13
    D. 13 ½
    E. 14

2. Three business partners are to share profits of $24,000 in the ratio 5:4:3. What is the amount of the least share?

3. If an object travels at 2 feet per minute, how many feet does it travel in a half hour?

4. The grand prize for winning a contest is $1,000. After 28% of the prize is deducted for taxes, the winner receives the balance of the prize in annual payouts of equal amounts over a three year period. How many dollars will the prizeman receive each year of the 3 years?

5. The boy spends $1,95 for lunch at school every day. He wants to estimate this amount he will spend for lunch during the month of May, which has 22 school days. Which of the following will give the best estimate?
    A. $1,00 x 20
    B. $1,50 x 20
    C. $2,00 x 20
    D. $1,50 x 25
    E. $2,00 x 30

6. A barrel contains only toys and fruits. There are twice as many fruits as toys. If one thing is to be drawn at random from the barrel, what is the probability that the thing drawn will be a toy?

7. From 1p.m. till 5 p.m. on Monday a group of photographers will be taking individual pictures of 6oo students. If it takes 2 minutes to take each student's picture, how many photographers are needed?
    A. 2
    B. 3
    C. 4
    D. 5
    E. 15

8. Ben bought 12 litres of petrol for $ 7,08
    A. how much would 40 litres of petrol cost?
    B. how much petrol could he buy for $10?

9. Which of the following gives the number of revolutions that a tire with diameter x meters will make in traveling a distance of y kilometers without slipping?
    A. $(1000y)/\pi x$
    B. $1000/\pi xy$
    C. $500/\pi x$
    D. $y/1000\pi x$
    E. $\pi x/1000y$

10. AL, Sonya and Carol are to divide n coins among themselves. If Sonya receives twice as many coins as Carol and if Al receives twice as many coins as Sonya, then how many coins does Carol receive, in term of n?

11. Oranges, apples and pears are bought for the party. The quantity of oranges is three times as many as apples, and quantity of apples is three times as less as pars. If the total quantity of fruit is 36, then how many oranges are bought?