1.   FIND THE 64th term in the ARITHMETIC SEQUENCE THAT HAS A(1)=12 AND A COMMOM DIFFERENCE (d) of 5.

2. WHAT IS THE DIFFERENCE IN THE AMOUNT OF WAYS THAT 12 JUNIORS CAN BE ELECTED AS PRESIDENT, VICE-PRESIDENT, AND SECRETARY COMPARED TO 8 SOPHOMORES BEING CHOSEN FOR 3 IDENTICAL POSITIONS ON A COMMITTEE?

3. TO THE NEAREST HUNDREDTHS OF A YEAR, HOW LONG DOES IT TAKE $4200 TO DOUBLE IF COMPOUNDED CONTINUOUSLY AT 3.4% INTEREST?

4. WHAT IS THE SUM OF THE ARITHMETIC SEQUENCE:

3, — 1, —5, ..., — 113

5. A TOWN HAS 998 HOUSEHOLDS. THE NUMBER OF PEOPLE PER HOUSEHOLD IS NORMALLY DISTRIBUTED WITH A MEAN OF 2.57 AND A STANDARD DEVIATION OF .17. TO THE NEAREST TENTHS, HOW MANY OF THE HOUSEHOLDS HAVE BETWEEN 2.06 AND 2.4 PEOPLE?

6. <u>SOLVE</u>: (log 8 + log x) — log 4 = log 12

7. What is the S (10) of the following sequence? (Round to the hundredths place)

.25, .075, .0225, ………..

8. IF THE PROBABILITY OF 7 PEOPLE IN A HOUSEHOLD IS .04, 4 PEOPLE IN A HOUSEHOLD IS .32, AND 2 PEOPLE IN A HOUSEHOLD IS .45, THEN WHAT IS THE EXPECTED SIZE OF THE HOUSEHOLDS? (ROUND TO THE THOUSANDTHS PLACE)

9. <u>SOLVE FOR A</u>:

$89^2 = 74^2 + 77^2 - 2(74)(77)\cos A$

10. <u>EVALUATE</u>: $\displaystyle\sum_{n=5}^{28} 5n + 3$