BRAIN TEASERS

Marin County's Dr. Gary Gruber is recognized as the leading authority on standardized tests and the originator of the critical thinking skills used to prepare for them. Through his work, more than 35 books with more than 7 million copies sold, he has dramatically increased aptitude, intelligence and standardized test scores on tests like the SAT and ACT.

Gary offers individualized instruction in Marin County.

QUESTIONS

1) A man with a number of bookshelves has distributed his book collection evenly on the shelves, putting 80 books on each shelf. If he adds 3 shelves and redistributes his collection evenly on all the shelves, each shelf will have 50 books. How many books are in his collection?

2) A sundial is a timepiece has the fewest moving parts. What type of timepiece has the most moving parts?

3) Suppose you have a strainer whose measurements are 4" width by 3" height, by 6" length. How much water can it hold?

4) In 10 seconds, without multiplying 35 X 65 and 34 X 66, can you figure out which is greater,
      35 X 65 or 34 X 66?

CONTEST!

Here's the explanatory answers to the 3/31 puzzles:

1) Find the next letter in the sequence: a z c w e t g q i
 (A) n   (B) k   (C) l   (D) m   (E) o

2) How many different committees can be formed from a pool of three people, where a committee can consist of 1 to 3 people.
(A)   3   (B) 4   (C) 5 (D) 6 (E) 7

3) Which of the following fractions is smallest?
 (A) 11/20   (B) 5/6   (C) 5/7   (D) 2/3   (E) ?

4) If a, b, and c are odd consecutive integers whose sum is 57, what is c?

 1) (A) n.   There are actually two sequences here: a (b) c (d) e (f) g (h)   i…and z (y) (x)   w (v) (u)   t (s) (r) q (p) (o) n…

2) (E) 7 If people are denoted by a,b,c you have committees a,b,c, ab, ac, bc, abc

3) (A) 11/20.   This is the fraction closest to 1/2. The rest are further from and greater than 1/2.

4) 21 Represent b = a + 2, c = a + 4, so a + b+ c = 3a + 6 = 57. 3a = 51, a = 17 so c = a + 4 = 21.