

JUNE MATH PUZZLES

1. Take the 2nd glass (from left) filled with orange juice and pour it in the 5th glass.
2. There are 27 Triangles in the diagram.
3. Your position will be second and the person you overtook will be in the third place.
4. Let us assume that the four digits are A, B, C and D respectively.

A is one-third of the B

$$A = B/3 \quad (1)$$

C is the sum of A and B, therefore

$$C = A + B \quad (2)$$

D is 3 times B, thus

$$D = 3B \quad (3)$$

Sub (1) in (3) to find C

Therefore,

$$C = B/3 + B$$

$$= 4B/3$$

A is B/3

B

C is 4B/3

D is 3B

But as they are rational numbers, to remove them assume that B = 3.

Therefore, A = 3/3 = 1

$$B = 3$$

$$C = 4/3 \times 3 = 4$$

$$D = 3 \times 3 = 9$$

So the four digit number is 1349.

5. Key to this math riddle is realizing that the numbers are taken in alternate clockwise direction.

Therefore,

$$(5+2+1) \times 7 = 56$$

$$(7+3+2) \times 8 = 96$$

$$\text{So, } (6+9+3) \times 4 = 72$$