Directions: Select the letter of the correct answer.

1) What must be the value of *x* so that *x!* = 5,040?
(a) 8
(b) 7
(c) 6
(d) 5

2) How many distinguishable permutations can be formed using the letters of the word "FACTORIALS"?
(a) 1 814 400
(b) 2 550 200
(c) 820 000
(d) 750 000

3) How many three-digit numbers can you form using the numbers 0, 3, 4, 7, and 9 (repetition of digits is not allowed)?
(a) 36
(b) 48
(c) 72
(d) 122

4) How many groups consisting of five people can be formed from 12 people?
(a) 512
(b) 792
(c) 880
(d) 912

5) How many triangles can you form using 5 points on a plane?
(a) 25
(b) 18
(c)12
(d) 10