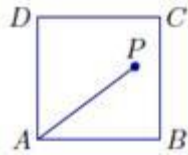# Math Kangaroo 2011 Sample Questions - Levels 5 & 6

1. Basil is writing the word KANGAROO, one letter each day. He wrote the first letter on Wednesday. On what day will he finish writing the word?
A) Monday B) Tuesday   C) Wednesday   D) Thursday E) Friday

7. Square ABCD has a side equal to 5 in. Point P is 5 inches away from point A and 1 inch away from side BC. What is the area of triangle APD?

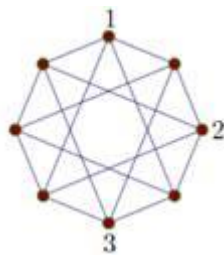A) 8 in²   B) 10 in²   C) 25 in²   D) 16 in²   E) 15 in²

12. 2011 and all four-digit numbers that can be made by rearranging the digits in 2011 were placed in increasing order. What is the difference between the two numbers on either side of 2011?

A) 890   B) 891   C) 900   D) 909   E) 990

18. There are three points that form a triangle. In how many ways can a fourth point be chosen in order to create a parallelogram?

A) 1   B) 2   C) 3   D) 4   E) 5

19. 8 points are connected with several segments as shown in the picture. Each of these points needs to be labeled with number 1, 2, 3, or 4. The numbers on each end of any given segment need to be different. Three of the points are already labeled (see the picture). How many points will be labeled with 4?

A) 1   B) 2   C) 3   D) 4   E) 5

26. In a certain month there were 5 Saturdays and 5 Sundays, but only 4 Fridays and 4 Mondays. In the following month there will be

A) 5 Wednesdays.   B) 5 Thursdays.   C) 5 Fridays.   D) 5 Saturdays. E) 5 Sundays.