LEVELS 1 AND 2

SAMPLE QUESTION FOR 3 POINTS

The ladybug will sit on a flower that has five petals and three leaves. On which of the flowers below will the ladybug sit?



SAMPLE QUESTION FOR 4 POINTS

Which of the shapes shown below will fit the above shape exactly to make a rectangle?



SAMPLE QUESTION FOR 5 POINTS

Cogwheel *A* turns around completely once. At which place is *x* now?



LEVELS 3 AND 4

SAMPLE QUESTION FOR 3 POINTS

Which small figure could be the central part of the larger figure with the star?



SAMPLE QUESTION FOR 4 POINTS

There were some pieces of candy in a bowl. Sally took half of the pieces of candy. Then Tom took half of the pieces left in the bowl. After that Clara took half of the remaining pieces. In the end there were 6 pieces of candy in the bowl. How many pieces of candy were in the bowl at the beginning?

A) 12 B) 18 C) 20 D) 24 E) 48

SAMPLE QUESTION FOR 5 POINTS

Eve arranged cards in a line as shown below. In one move, Eve can switch the places of any two cards. What is the smallest number of moves Eve needs to make to get the word KANGAROO?



LEVELS 5 AND 6

SAMPLE QUESTION FOR 3 POINTS

Arnold spelled the word KANGAROO with cards showing one letter at a time. Unfortunately, some cards were rotated. By turning the K card back by 90° twice he can correct the letter K, and by turning the first A card once he can correct the first A (see the figures). How many times does he need to rotate by 90° for all of the letters to be correct?



SAMPLE QUESTION FOR 4 POINTS

Henry and John started walking from the same point. Henry went 1 km north, 2 km west, 4 km south and finally 1 km west. John went 1 km east, 4 km south and 4 km west. Which of the following must be the final part of John's walk in order to reach the point where Henry ended his walk?

A) He has already reached the same point.		B) 1 km north
C) 1 km north-west	D) More than 1 km north-west	E) 1 km west

SAMPLE QUESTION FOR 5 POINTS

The 3 x 3 x 3 cube in the picture is made of 27 small cubes. How many small cubes do you have to take away to see the picture on the left as the result when looking from the right, from above, and from the front?



LEVELS 7 AND 8

SAMPLE QUESTION FOR 3 POINTS

Each year, the date of the Kangaroo competition is the third Thursday of March. What is the latest possible date of the competition in any year?

A) March 14th B) March 15th C) March 20th D) March 21st E) March 22nd

SAMPLE QUESTION FOR 4 POINTS

In the diagram, the area of each circle is 1 cm^2 . The area common to two overlapping circles is $1/8 \text{ cm}^2$. What is the area of the region covered by the five circles shown?



SAMPLE QUESTION FOR 5 POINTS

On a pond there are 16 water lily leaves in a 4 by 4 pattern as shown. A frog sits on a leaf in one of the corners. It then jumps from one leaf to another either horizontally or vertically. The frog always jumps over at least one leaf and never lands on the same leaf twice. What is the greatest number of leaves (including the one it is sitting on) that the frog can reach?

