LEVELS 1 AND 2

SAMPLE QUESTION FOR 3 POINTS

3. Nelly arranged the 4 pieces to make a picture of a kangaroo. How are the pieces arranged?



	4	3		3	4		2	1		4	3		3	4
(A)	2	1	(B)	2	1	(C)	4	3	(\mathbf{D})	1	2	(E)	1	2

SAMPLE QUESTION FOR 4 POINTS

11. Five shapes are made by gluing cubes together face to face. Which shape uses the most cubes?



SAMPLE QUESTION FOR 5 POINTS

19. Mark the Bee can walk only on gray cells. In how many ways can you color exactly two white cells gray so that Mark can walk from A to B?



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LEVELS 3 AND 4

SAMPLE QUESTION FOR 3 POINTS

6. Elli draws the big square (shown in the picture) with chalk on the pavement. She starts at the square marked with the number 1 and begins jumping. Each time she jumps, she always jumps to a number that is 3 more than the number she is standing on. What is the largest number Elli can jump to?

1	5	8	11
4	7	10	14
24	23	13	18
21	19	16	20

(A) 11 (B) 14 (C) 18 (D) 19 (E) 24

SAMPLE QUESTION FOR 4 POINTS

14. The sum of three numbers is 50. Karin subtracts a secret number from each of these three numbers. She gets 24, 13, and 7 as the results. Which of the following is one of the original three numbers?

((A) 9	(B) 11	(C) 13	(D) 17	(E) 23
J		(\mathbf{D}) II	(C) 15	(D) 1/	(L) 23

SAMPLE QUESTION FOR 5 POINTS

20. The teacher writes the numbers from 1 to 8 on the board. The teacher then covers the numbers with triangles, squares, and a circle. If you add the four numbers covered by the triangles, the sum is 10. If you add the three numbers covered by the squares, the sum is 20. Which number is covered by the circle?



LEVELS 5 AND 6

SAMPLE QUESTION FOR 3 POINTS

1. Which piece completes the pattern?



SAMPLE QUESTION FOR 4 POINTS

11. The numbers from 1 to 10 have to be placed in the small circles, one in each circle. Numbers in any two neighboring circles must have the same sum as the numbers in the two diametrically opposite circles. Some of the numbers are already placed. What number should be placed in the circle with the question mark?



(A) 3 (B) 4 (C) 6 (D) 7 (E) 8

SAMPLE QUESTION FOR 5 POINTS

29. Don builds a pyramid using balls. The square base consists of 3×3 balls. The middle layer has 2×2 balls, and there is one ball at the top. Any two balls that touch each other are glued at their contact point. How many glued contact points are there?



LEVELS 7 AND 8

SAMPLE QUESTION FOR 3 POINTS

2. In which of the regular polygons below is the marked angle the largest?



SAMPLE QUESTION FOR 4 POINTS

11. The shortest path from Atown to Cetown runs through Betown. The two signposts shown are set up along this path. What distance was written on the broken sign?



SAMPLE QUESTION FOR 5 POINTS

22. Zaida took a square piece of paper and folded two of its sides to the diagonal, as shown, to obtain a quadrilateral. What is the size of the largest angle of the quadrilateral?

