Math Kangaroo 2016 Sample Questions

LEVELS 1 AND 2

SAMPLE QUESTION FOR 3 POINTS

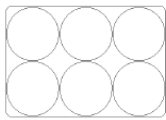How many ropes are there in the picture?

A) 2   B) 3   C) 4   D) 5   E) 6

SAMPLE QUESTION FOR 4 POINTS

Lisa's hens lay white eggs and brown eggs. Lisa puts six eggs in the box shown below. Two brown eggs cannot touch each other. At most, how many brown eggs can Lisa put in the box?

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

SAMPLE QUESTION FOR 5 POINTS

Five sparrows sat on a wire as shown in the picture. Each sparrow chirped only once to each bird it saw on the side it faced. For example, the second sparrow chirped one time. In total, how many times did they chirp?
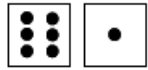

A) 6   B) 8   C) 9   D) 10   E) 12
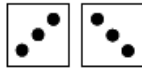
Math Kangaroo 2016 Sample Questions

LEVELS 3 AND 4

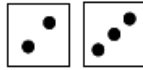**SAMPLE QUESTION FOR 3 POINTS**

Amy, Bert, Carl, Doris, and Ernst each rolled two dice and added the number of dots.
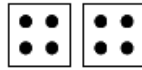
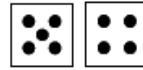Amy   Bert   Carl   Doris   Ernst

Who rolled the largest total?

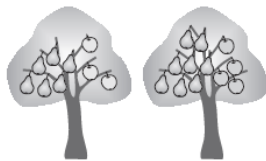A) Amy   B) Bert   C) Carl   D) Doris   E) Ernst

SAMPLE QUESTION FOR 4 POINTS

The sum of the digits of the year 2016 is equal to 9. What is the next year, after 2016, where the sum of the digits of the year is equal to 9 again?

A) 2007   B) 2025   C) 2034   D) 2108   E) 2134

SAMPLE QUESTION FOR 5 POINTS

Magic trees grow in a magic garden. Each tree has either 6 pears and 3 apples, or 8 pears and 4 apples. There are 25 apples in the garden. How many pears are there in the garden?

A) 35   B) 40   C) 45   D) 50   E) 56

Math Kangaroo 2016 Sample Questions

LEVELS 5 AND 6

SAMPLE QUESTION FOR 3 POINTS

Which of the following traffic signs has the largest number of lines of symmetry?

SAMPLE QUESTION FOR 4 POINTS

Mary, Ann, and Nata work at a kindergarten. Each day from Monday to Friday exactly two of them come to work. Mary works 3 days per week and Ann works 4 days per week. How many days per week does Nata work?

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

SAMPLE QUESTION FOR 5 POINTS

Clara wants to construct a big triangle using identical small triangular tiles. She has already put some tiles together as shown in the picture. What is the smallest number of tiles she needs to complete a triangle?
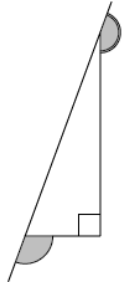

A) 5   B) 9   C) 12   D) 15   E) 18

Math Kangaroo 2016 Sample Questions
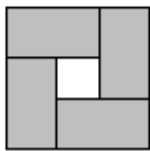
LEVELS 7 AND 8

SAMPLE QUESTION FOR 3 POINTS

What is the sum of the two marked angles in the figure on the right?

A) 150° B) 180° C) 270° D) 320° E) 360°

SAMPLE QUESTION FOR 4 POINTS

The diagram shows four identical rectangles placed inside a square. The perimeter of each rectangle is 16 cm. What is the perimeter of the big square?

A) 16 cm   B) 20 cm   C) 24 cm   D) 28 cm   E) 32 cm

SAMPLE QUESTION FOR 5 POINTS

Twelve girls met in a coffee shop. On average, they ate 1.5 cupcakes each. None of them ate more than two cupcakes and two of them had only mineral water. How many girls ate two cupcakes?

A) 2   B) 5   C) 6   D) 7   E) 8