Year 3 and 4 (ENGLISH VERSION)

Thursday, 16th March 2017

Time allowed: 75 minutes

- 1. For each question exactly one of the 5 options is correct.
- 2. Each participant is given 24 points at the beginning. For each correct answer 3, 4 or 5 points are added. No answer means 0 points are added. If a wrong answer is given, one quarter of the points is subtracted, i. e. 0.75 points, 1 point or 1.25 points, respectively. At the end, the maximum number of points is 120, the minimum is 0.
- 3. Calculators and other electronic devices are not allowed.





- **B3** On Monday, 13 children signed up for the running team competition at the annual sports day. On Tuesday, another 19 children signed up. At least how many more children need to sign up so that teams with 6 children each can be formed?
 - (A) 1 (B) 2 (C) 3 (D) 4 (E) 5

Marlon folded a piece of paper and punched one hole in the paper. Now,

the unfolded paper has the 4 holes shown on the right. How could Marlon

B4

have folded the paper?

(A) (B) (\mathbf{C}) (\mathbf{D}) (E) **B5** On the fruit market, Zada bought 8 oranges and one melon. Silas bought 3 melons. They both paid the same. How many oranges have the same price as one melon? **(A)** 2 **(B)** 3 (**C**) 4 (**D**) 5 (**E**) 6 **B6** In the number square on the right there are 9 squares that consist 2 3 1 4 of exactly 4 cells. For each of these 9 squares, Mary finds the sum 2 2 1 6 of the 4 numbers. For example, for the bottom left square she 3 4 1 1 obtains 4 + 1 + 1 + 2 = 8. Which of the 9 sums is the largest? 4 5 1 2 (**A**) 8 **(B)** 10 (**C**) 11 (**D**) 12 (**E**) 13 Jette Elias Stella **B7** Jette, Elias and Stella live in the same street. 300 m 500 m They want to meet in their street, such that the sum of the distances that the three children have to walk is as small as possible. What is this smallest possible sum? (**A**) 400 m (**B**) 600 m (**C**) 800 m (**D**) 900 m (**E**) 1000 m **B8** The picture on the right shows a group of building blocks and a plan of the same group which shows the 3 4 1 positions and the heights of all block towers. What is 1 the sum of the two missing numbers? 1 3 (**E**) 7 1 (**A**) 3 **(B)** 4 (**C**) 5 (**D**) 6 5 point problems **C1** The two pictures show the same train and the same bridge. How long is the train? 45 m 157 m (**D**) 56 m (**B**) 46 m (**A**) 45 m (**C**) 52 m (**E**) 57 m

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The red square is in the 4th row from the bottom, in the 5th row from the top, in the 6th column from the left and in the

- (A) 2nd column from the right. (B) 3rd column from the right.
 - (**D**) 5th column from the right.
- $({\bf E}\,)$ 6th column from the right.

(**C**) 4th column from the right.

- **C7** Oskar wrote the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 on ten cards. He chooses two cards, writes the sum of the two numbers on a piece of paper, and puts the two cards aside. After Oskar has done that five times, there are five numbers on the piece of paper. Four numbers are 12, 7, 6 and 14. What is the fifth number?
 - (**A**) 16 (**B**) 11 (**C**) 17 (**D**) 9 (**E**) 13
- **C8** For a party Luna baked muffins: 10 apple muffins, 18 blueberry muffins, 12 chocolate muffins and 9 nut muffins. Now, she prepares plates with 3 different muffins each. What is the *smallest* number of muffins that can remain?
 - (A) 1 (B) 3 (C) 4 (D) 7 (E) 8

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