## Year 5 and 6 (ENGLISH VERSION)

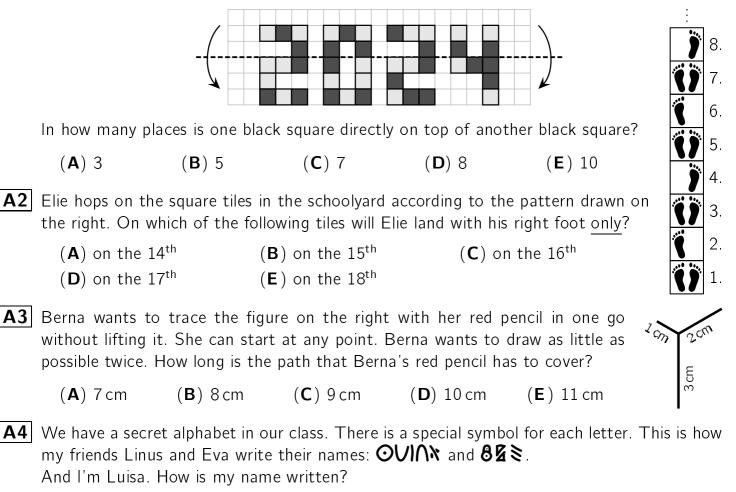
Saturday, 23rd March 2024

Time allowed: 60 minutes

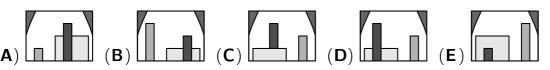
- 1. For each question exactly one of the 5 options is correct.
- 2. Each participant is given 24 points at the beginning. For each correct answer 3, 4 or 5 points are added. No answer means 0 points are added. If a wrong answer is given, one quarter of the points is subtracted, i. e. 0.75 points, 1 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.

## 3 point problems

**A1** Tasnim draws the number 2024 on squared paper. She colours some of the squares black. Then she folds her paper along the dotted line:



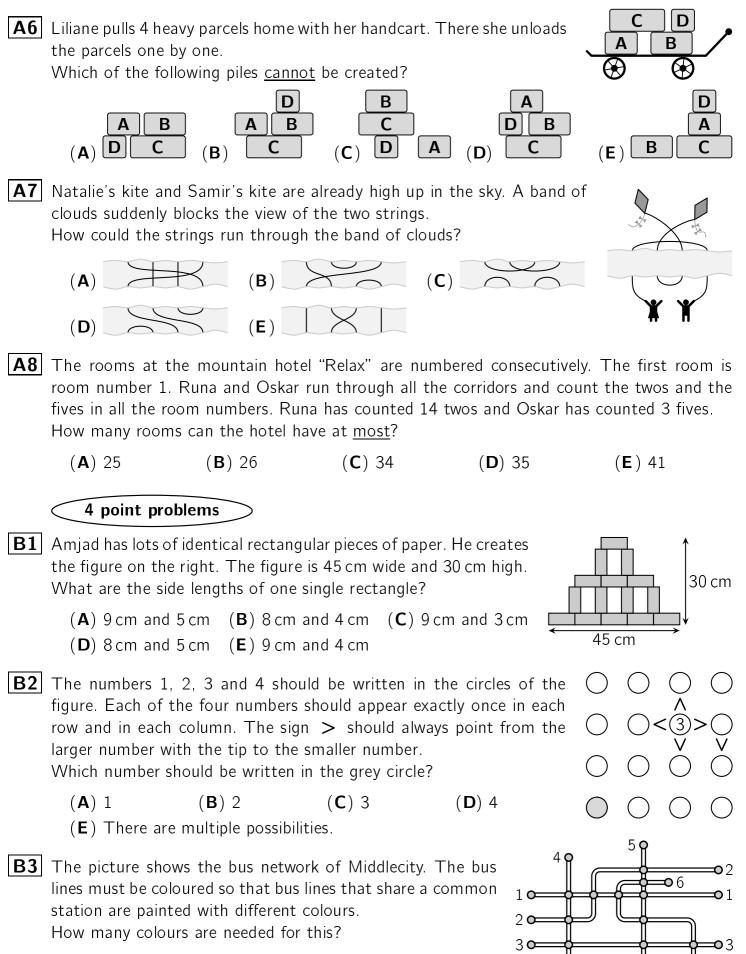
- $(A) \bigcirc \texttt{OSAU} (B) \And \bigcirc \texttt{OVAS} (C) \bigcirc \texttt{OA} \And \texttt{VS} (D) \oslash \texttt{SVAS}$
- **A5** Adam is building a bookcase with his father. He has leaned three boards against the window. What does it look like from outside?



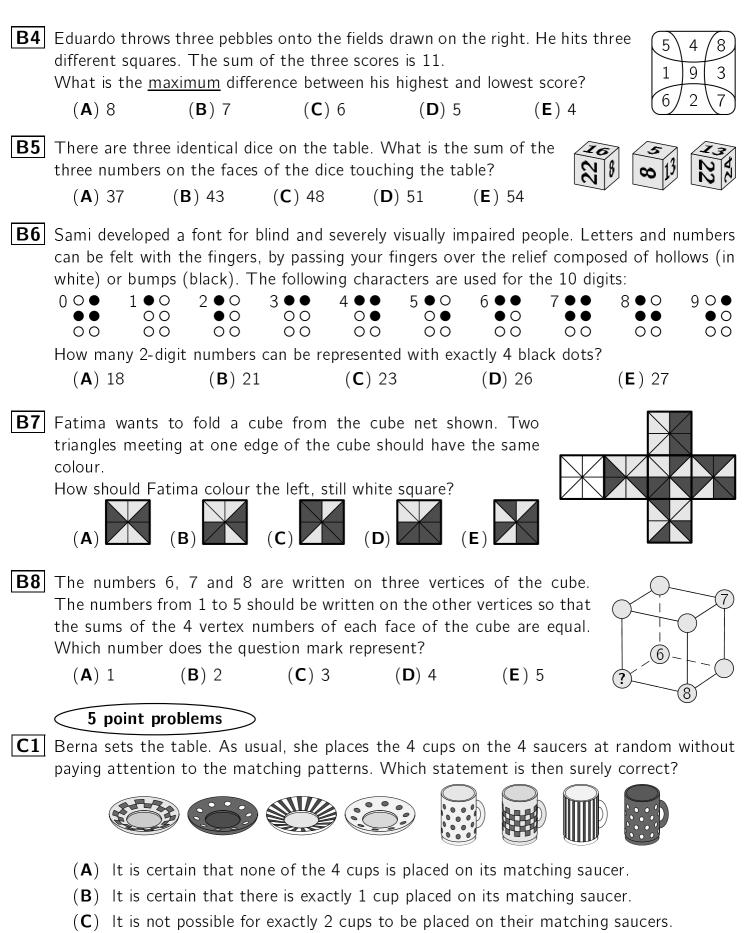
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(**A**) 2 (**B**) 3 (**C**) 4 (**D**) 5 (**E**) 6



- $(\mathbf{D})$  It is not possible for exactly 3 cups to be placed on their matching saucers.
- (E) It is not possible for all 4 cups to be placed on their matching saucers.

**C2** The thread-eating moths Fa, Mo and Tzz find a thread. Fa wants to divide the thread into 6 pieces of equal length and marks the division points. Mo wants to divide it into 9 pieces of equal length and also marks the division points. Tzz bites the thread at <u>all</u> the marked points. How many pieces are there at the end?

vacation. Her older brother attaches a digit on the right. This is now the number of kilometers he has cycled. He has cycled 2024 kilometers more than Kristina. What digit did he attach?

(A) 2 (B) 3 (C) 5 (D) 8 (E) 9