

School:

Name of Student:

**Sets:** circle (one set)

Further tools: paper, pencil, calculator

Date:

## **STUDENT**PUSE Task Number

229

## **Description of the task:**

- 1. What is the probability of getting elements of the same base colour if we randomly choose 6 elements from the circle set?
  - Let's imagine the following: we ask 4 of our classmates to construct rings of 6 elements. We give 6 randomly chosen elements to each of them, one after the other.
- 2. What is the probability that all four of them will construct a ring of the same base colour?
- 3. What is the probability that exactly three of them will get a ring of the same base colour?
- 4. What is the probability that exactly two of them will get a ring of the same base colour?
- 5. What is the probability that exactly one of them will get a ring of the same base colour?
- 6. Calculate the probability of having 5 matches on the lottery (with one lottery ticket). Compare the result with the probabilities in the previous tasks. (In this lottery, 5 different numbers are chosen from 90, irrespective of the order.)

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Solution(s) of the task:
Remarks / Self-evaluation: