



APSMO

2023 | DIVISION J
WEDNESDAY 9 SEPTEMBER 2023

OLYMPIAD

4

Total Time Allowed: 30 Minutes

1. The diagram shows a net of a three-dimensional rectangular prism.

Four faces are filled with sand.

The sand is then poured out into containers that are 2 units wide by 2 units high by 1 unit deep. How many of these containers can be filled with the sand from the net?



Write your answer in the space on the back.

Stop your answer session by putting the pencil on this line.

2. Every day, May adds to his collection of bottle caps by the same amount. In two days from now, he will have 100 bottle caps. Today, he has 40 bottle caps. How many bottle caps will he have 7 days ago?

3. The sum of seven consecutive counting numbers is 2023. What is the last of these counting numbers?

4. The telephone has buttons with all four digits from 0 to 9. A customer can call a customer 20 telephones using a pair of 0's, 1 telephones using a pair of 1's, 1 telephones using a pair of 2's, and 1 telephones using a pair of 3's.

She knows any number a customer can call for about 10 telephones she can make.

What is the largest number of telephones she is not able to call in a customer using any combinations of these pairs?

5. The secret password for Chibi's club is a four-digit number.

The password has only two prime factors.

One of these primes is a single digit number.

The sum of the digits of the password is 10.

The last three digits of the code are the same. What is the password?

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Section and Section

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Math Olympiad International Competition Preparation Terry Chew, 2021 Taking part in Maths Olympiad for the first time Know what to expect with the official SEAMO Past Competition Papers These books reproduce the 2016-2020 papers for Paper A as well as 2019-2021 papers for SEAMO X so students can familiarise themselves with the SEAMO format Worked solutions by the Terry Chew Institute of Mathematical Olympiads TCIMO are provided for every question

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