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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.

What was the number of bottle caps in May's collection 7 days ago?

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

4. The telephone that Isabella calls at her shop comes in pairs of 5, 6 or 11. Isabella can call a customer 20 telephone calls using a pair of 5's, a pair of 6's and one pair of 11's.

She knows any number a customer calls for about 10 telephone calls.

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

5. The secret password for Mr. Smith'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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Yijin Wang



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