Task 1

Nora is trying to find the correct combination to open a lock. She knows the following:
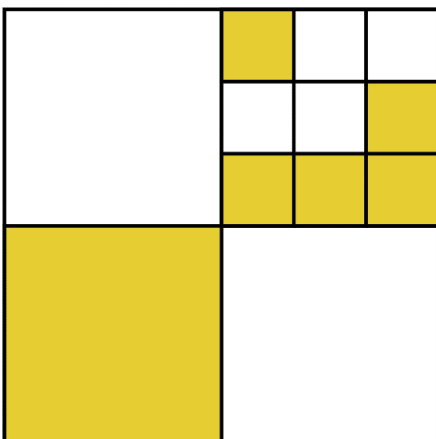
- The first number is divisible by 3
- The second number is a prime number between 1 and 9
- The third number is one third of the first number

Which of the following combinations could open the lock?

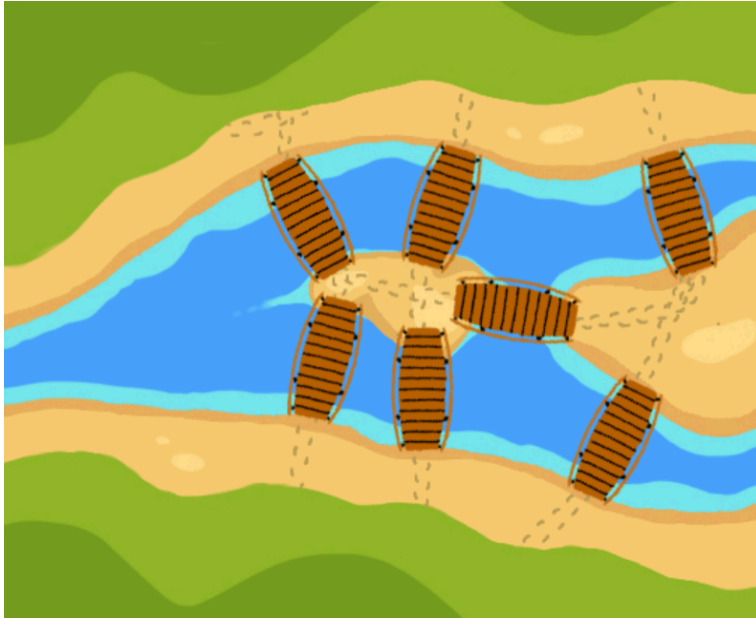**A:** 9-3-3   **B:** 6-9-3   **C:** 9-2-2   **D:** 3-6-1

Task 2

Scientists have found areas that contain gold in a square shaped area. How much of this square contains gold?

A: 7/19   **B:** 6/14   **C:** 3/7   **D:** 7/18

Task 3

Leonards park has seven bridges. Is there a route through this park that crosses each bridge exactly one time?

A: Yes   **B:** No   **C:** Maybe   **D:** Impossible to answer

Task 4

There are four empty squares in the expression below. There should be "-" in three squares, and "+" in one square

$$18 \ \square \ 23 \ \square \ 7 \ \square \ 13 \ \square \ 4 = 17$$

Which square should contain "+" ?

A: First square   **B:** Second square   **C:** Third square   **D:** Fourth square
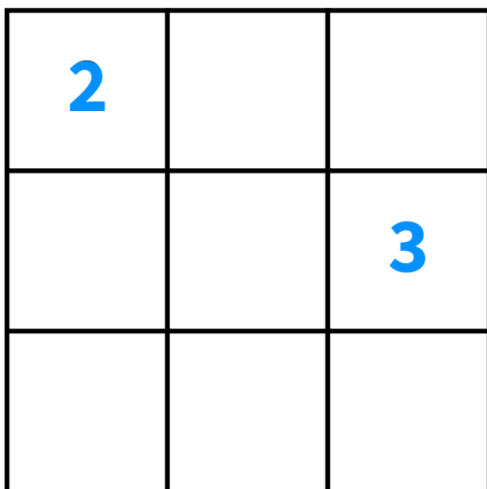
Task 5

The numbers in this pyramid follow a specific pattern. Which number would be in the upper circle (X) if this pattern is followed?

Row 1: X

Row 2: ( ) ( )

Row 3: ( ) ( ) (27)

Row 4: (7) ( ) ( ) (15)

Row 5: (2) (5) ( ) ( ) (6)
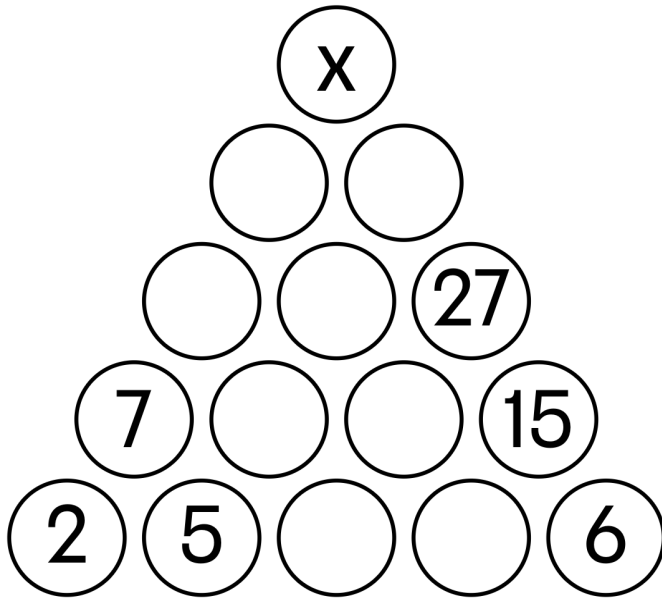
A: 14   **B:** 32   **C:** 55   **D:** 82

Task 6

Each square must have a number. The sum of two squares that share a side must be the same. What is the sum of all the numbers in this square?

2		
		3

A: 19   **B:** 21   **C:** 23   **D:** 22

Class: _____   School: _____

Answer sheet:

Task:	A	B	C	D
1.				
2.				
3.				
4.				
5.				
6.				