

**GRADE 2**

# Spirit of Math International Contest 2021

In collaboration with SMILE developed by Stanford University

## INSTRUCTIONS

**1**

You have **30 minutes** to write the contest.

**2**

The contest is multiple-choice with four choices for each question.

**3**

Write the CAPITAL letter of the answer you choose on the line to the right of each question and fill in the corresponding circle on the SoM Answer Sheet.

**4**

Each question answered correctly is worth one mark, and the sum of the correct answers is the score.

**5**

Marks are not taken off for wrong answers.

**6**

No calculators or other counting tools are allowed.

**Student Name:**

**Score:**  /20

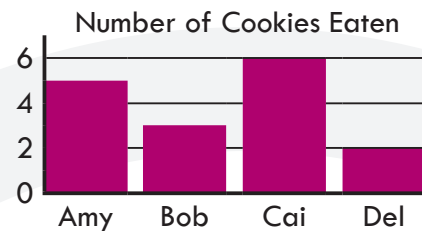
1)  $3 + 7 + 4 + 6 + 9 + 11 = ?$   
A) 20                      B) 30                      C) 36                      D) 40                      \_\_\_\_\_

2) Two hundred twenty-two can be written as:  
A) 22                      B) 222                      C) 2222                      D) 22222                      \_\_\_\_\_

3) What is the next number in this pattern? 1, 3, 5, 7, \_\_\_\_\_  
A) 6                      B) 9                      C) 11                      D) 13                      \_\_\_\_\_

4) Ava drew a square and a triangle on the chalkboard. Altogether, how many sides are on the shapes Ava drew?  
A) 5                      B) 6                      C) 7                      D) 8                      \_\_\_\_\_

5) The graph to the right shows the number of cookies eaten by several students. Who ate the least number of cookies?



A) Amy                      B) Bob                      C) Cai                      D) Del                      \_\_\_\_\_

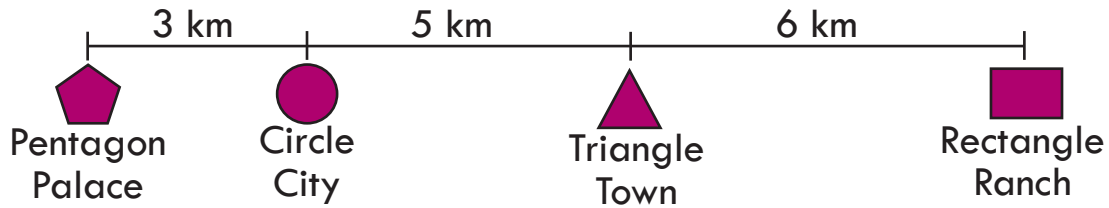
6) If one metre is equal to 100 centimetres, what is half a metre equal to?  
A) 10 centimetres                      C) 50 centimetres  
B) 25 centimetres                      D) 75 centimetres                      \_\_\_\_\_

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Space for rough work



- 7) What is the total distance from Rectangle Ranch to Circle City?

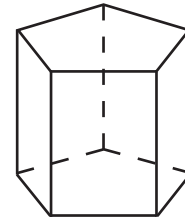


- A) 8 km                      B) 11 km                      C) 13 km                      D) 14 km                      \_\_\_\_\_
- 8) Leon scored five points in a basketball game and Leah scored three less points than Leon. How many points did they score in total?  
A) 7                      B) 8                      C) 9                      D) 13                      \_\_\_\_\_
- 9) Mary planted 3 rows of seeds in her garden with 4 seeds in each row. How many seeds did Mary plant?  
A) 9                      B) 10                      C) 12                      D) 14                      \_\_\_\_\_
- 10) Suren is eight years old and his dad is five times older than him. Suren's uncle is four years younger than Suren's dad. How old is Suren's uncle?  
A) 24                      B) 28                      C) 30                      D) 36                      \_\_\_\_\_

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Space for rough work

11) How many flat surfaces (faces) does this shape have?



A) 5

B) 6

C) 7

D) 10

\_\_\_\_\_

12) Mack E. Rel loves fishing. One day he caught 14 fish and put all but six fish back into the water. How many fish were put back into the water? Which question below requires the correct logical thinking to solve this problem?

A) How many fish did he catch?

C) How many fish are in the lake?

B) How big is the lake?

D) How many fish were not put back into the water?

\_\_\_\_\_

13) Frazie decided to paint some consecutive school lockers. She knows that consecutive numbers are numbers that follow each other in order, without gaps (for example: 3, 4, 5, 6). Frazie painted all the lockers numbered consecutively from 8 to 21. How many lockers did she paint?

A) 13

B) 14

C) 15

D) 16

\_\_\_\_\_

14) Neha's birthday is two days before one week after May 15<sup>th</sup>. When is Neha's birthday?

A) May 10<sup>th</sup>

B) May 20<sup>th</sup>

C) May 21<sup>st</sup>

D) May 22<sup>nd</sup>

\_\_\_\_\_

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Space for rough work



15) Mrs. Cakie loves baking. One day, she baked 13 cupcakes. Ten had chocolate icing, seven had sprinkles, and some had both. How many cupcakes had both chocolate icing and sprinkles?

A) 4

B) 5

C) 6

D) 7

\_\_\_\_\_

16) What number does the circle represent?

$$\triangle + \triangle + \triangle = 30$$

$$\triangle + \square + \triangle = 25$$

$$\bigcirc + \square = 20$$

$$\bigcirc = ?$$

A) 5

B) 10

C) 15

D) 20

\_\_\_\_\_

17) Marrie went to the zoo and saw ostriches and spiders. She noticed that an ostrich has two legs and a spider has eight legs. If she counted 9 heads and 30 legs, how many spiders did Marrie see?

A) 2

B) 3

C) 4

D) 6

\_\_\_\_\_

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Space for rough work

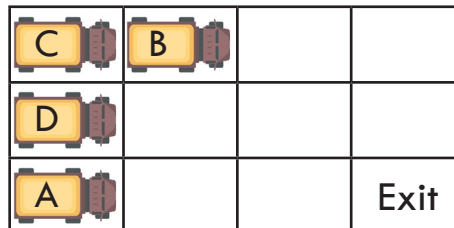
18) Stephanie has three red cards, four green cards, six blue cards, and eight yellow cards in a bag. What is the smallest number of cards Stephanie must pull out without looking to be sure that she has at least one green card?

- A) 4                      B) 17                      C) 18                      D) 20                      \_\_\_\_\_

19) Trucks can only move in the direction they are facing. After following the instructions below, which truck will end in the rectangle marked "Exit"?

**Instructions:**

1. Move forward one space.
2. Turn right.
3. Move forward one space.
4. Turn left.
5. Move forward two spaces.



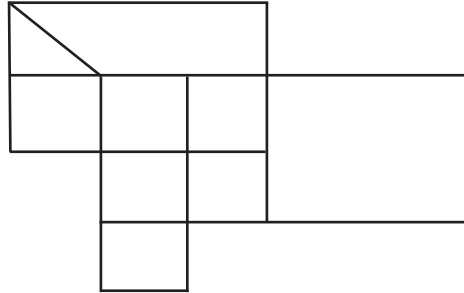
- A) Truck A                      B) Truck B                      C) Truck C                      D) Truck D                      \_\_\_\_\_

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Space for rough work



20) How many rectangles of all sizes are there in the following diagram?



A) 18

B) 19

C) 20


D) 21

\_\_\_\_\_

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Space for rough work





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