

**GRADE 1**

# 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)  $7 + 3 + 6 + 4 = ?$   
A) 5                      B) 10                      C) 20                      D) 22                      \_\_\_\_\_
- 2) Which month comes right before December?  
A) February              B) January              C) March              D) November              \_\_\_\_\_
- 3) If Marlie is 6 years old today, how old will she be in a year?  
A) 5                      B) 7                      C) 8                      D) 9                      \_\_\_\_\_
- 4) Max picked 10 apples. His mother took 8 of his apples to bake in a pie. How many apples does Max have left?  
A) 1                      B) 2                      C) 4                      D) 8                      \_\_\_\_\_
- 5) Which number is less than 157?  
A) 175                      B) 201                      C) 165                      D) 155                      \_\_\_\_\_
- 6) Lily's art show was open for one full day. How many hours was her art show open for?  
A) 8                      B) 12                      C) 24                      D) 60                      \_\_\_\_\_
- 7) Gary saw five bicycles with two wheels each at the park. He counted all their wheels. How many wheels did he count?  
A) 2                      B) 5                      C) 10                      D) 20                      \_\_\_\_\_

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Space for rough work



8) Find the next number in this pattern: 8, 12, 16, 20, \_\_\_\_  
 A) 18                      B) 22                      C) 24                      D) 28                      \_\_\_\_

9) Four friends are sharing a hot dog. How many parallel cuts must be made so everyone gets a piece?  
 Remember: parallel cuts never cross!



A) 3                      B) 4                      C) 5                      D) 6                      \_\_\_\_

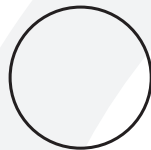
10) Barry, Jerry, and Harry ran a race. Jerry was the fastest runner. Barry was not in third place. Who came in second?

A) Barry                      B) Harry                      C) Larry                      D) Jerry                      \_\_\_\_

11) Four friends went fishing. All but three of them caught a fish. How many of them did not catch a fish?

A) 1                      B) 2                      C) 3                      D) 4                      \_\_\_\_

12) Jacob has two shapes, a circle and a triangle. If one of the shapes is not a circle, what is the other one?



A) A circle                      B) A triangle                      C) A square                      D) Jacob                      \_\_\_\_

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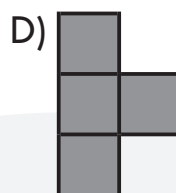
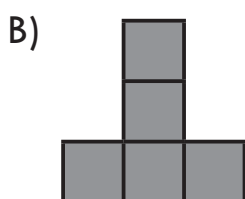
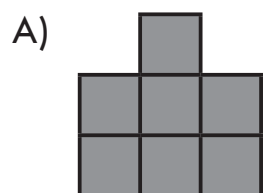
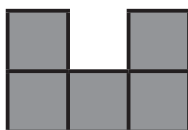
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13) If yesterday was Tuesday, what day is tomorrow? What is the best question to ask to help you logically solve this problem?

A) How do you spell "Tuesday"?      C) How long is Tuesday?

B) How many days are in a week?      D) What day is today?      \_\_\_\_\_

14) Lena has two pieces of a puzzle that fit together to make a rectangle. If this is one of the pieces, which of the following could **not** be her other piece?



\_\_\_\_\_

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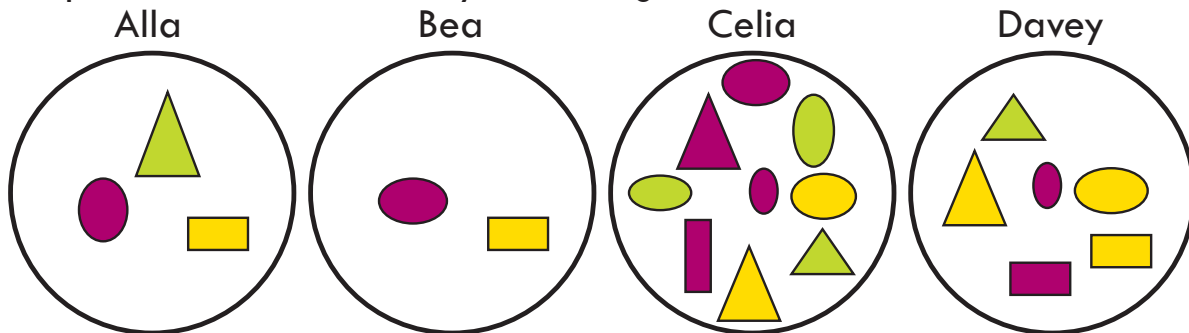
- 15) Elaine has 22 crayons. She gives two of her crayons to her sister and then gives half of what is left to her brother. How many crayons does Elaine give to her brother?  
A) 9                      B) 10                      C) 11                      D) 12                      \_\_\_\_\_
- 16) All 24 students in Mr. Henry's mathematics class like addition, subtraction, or both. If 14 like addition and 15 like subtraction, how many like both?  
A) 5                      B) 6                      C) 7                      D) 8                      \_\_\_\_\_
- 17) Caleb's birthday is three days after two days before five days after April 14<sup>th</sup>. When is Caleb's birthday?  
A) April 18<sup>th</sup>              B) April 19<sup>th</sup>              C) April 20<sup>th</sup>              D) April 21<sup>st</sup>              \_\_\_\_\_

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Space for rough work



- 18) Alla, Bea, Celia, and Davey each have some shapes, as shown in the picture below. Celia and Davey want to give some of their shapes to the others so everyone has the same number of shapes. How many shapes do Celia and Davey need to give to the others in total?



A) 4

B) 5

C) 6

D) 7

\_\_\_\_\_

- 19) Dave the Dove was flying 10 metres above the ground. He flew up 20 metres, then he flew down 5 metres, then he flew up 15 metres, then he flew down 10 metres. Then Dave spots a bird 5 metres above him. How many metres above the ground is the bird?

A) 25 m

B) 30 m

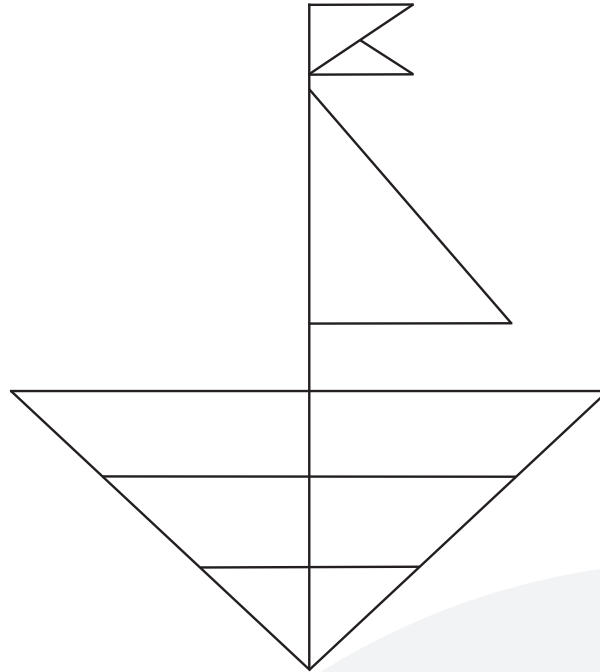
C) 35 m

D) 45 m

\_\_\_\_\_

Space for rough work

20) How many triangles of all sizes are in this diagram?



A) 10

B) 12


C) 13

D) 14

\_\_\_\_\_

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Space for rough work



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