

**GRADE 2**

# Spirit of Math International Contest 2020






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)  $7 + 6 + 13 + 4 = ?$   
A) 10                      B) 20                      C) 30                      D) 40                      \_\_\_\_\_
- 2) Which two shapes come next in the pattern?  
  
A)                       B)                       C)                       D)                       \_\_\_\_\_
- 3)  $10 - 2 + 6 - 6 + 2 = ?$   
A) 6                      B) 8                      C) 10                      D) 12                      \_\_\_\_\_
- 4)  $10 - 4$  is the same as  
A)  $10 + 4 - 6$                       B)  $10 + 0 - 2$                       C)  $10 - 6 + 4$                       D)  $10 - 2 - 2$                       \_\_\_\_\_
- 5) Reena bought 8 apples. If Aram bought twice as many apples as Reena, how many apples did Aram buy?  
A) 8                      B) 10                      C) 16                      D) 20                      \_\_\_\_\_
- 6) How many hours are there in two days?  
A) 12                      B) 24                      C) 36                      D) 48                      \_\_\_\_\_

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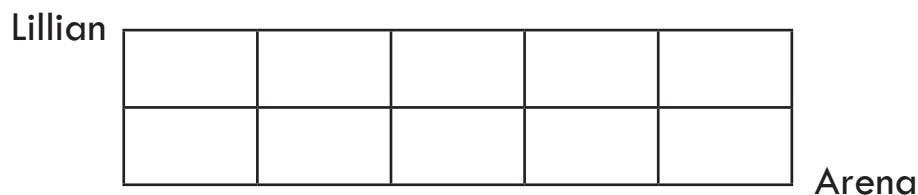
Space for rough work

- 7) If today is May 19<sup>th</sup>, when was two days before yesterday?  
A) May 15<sup>th</sup>      B) May 16<sup>th</sup>      C) May 18<sup>th</sup>      D) May 20<sup>th</sup>      \_\_\_\_\_
- 8) Meshal started reading her book “Smiling Snakes” at the top of page 5 and finished reading at the bottom of page 10. How many pages did Meshal read?  
A) 2                      B) 4                      C) 6                      D) 10                      \_\_\_\_\_
- 9)  $2 \times 4 \times 0 = ?$   
A) 0                      B) 6                      C) 8                      D) 12                      \_\_\_\_\_
- 10) In Luis’ class, there are 3 rows with 3 students seated in each row. How many students are there in Luis’ class?  
A) 5                      B) 6                      C) 9                      D) 12                      \_\_\_\_\_
- 11) Ashley would like to give one chocolate bar to her eleven friends to share by making parallel cuts. How many cuts will she need to make for her friends to get one piece each?  
A) 9                      B) 10                      C) 11                      D) 12                      \_\_\_\_\_

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- 12) Lillian wants to watch her favourite sports team at the city arena. How many different ways can Lillian travel to the arena if she goes south (down) and east (right) on a  $2 \times 5$  grid?

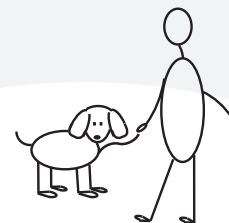


- A) 9                      B) 15                      C) 17                      D) 21                      \_\_\_\_\_

- 13) Kaleb wants to measure the length of his car. Which measurement unit should he use?

- A) millimetres (mm)              B) centimetres (cm)              C) metres (m)              D) kilometres (km)              \_\_\_\_\_

- 14) Billy took his dog, Willy, to the dog park where he saw dogs and people. He counted 10 heads and 26 legs, which belonged to dogs or people. How many people were at the park?



- A) 3                      B) 5                      C) 7                      D) 10                      \_\_\_\_\_

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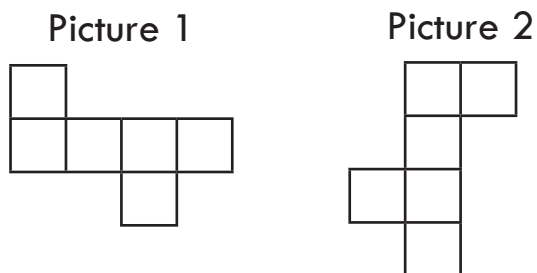
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- 15) Carrie, Larry, and Harry are cousins. Carrie is twice Larry's age. Larry is 3 years younger than Harry. If Harry is 12 years old, how old is Carrie?  
A) 16                      B) 18                      C) 24                      D) 30                      \_\_\_\_\_
- 16) Eight players competed in the Kings and Queens Chess Tournament. At the end of the day, each player shook hands with all other players once. How many handshakes were there in total?  
A) 16                      B) 28                      C) 32                      D) 64                      \_\_\_\_\_
- 17) Ally is having a sandwich party for herself and 3 friends. If each friend will eat one half of a sandwich, how many sandwiches will she need? Which question below requires the correct logical thinking to solve this problem?  
A) What kind of sandwiches are there?  
B) What are the names of Ally's friends?  
C) How many half sandwiches does Ally need in all?  
D) How many friends are invited?                      \_\_\_\_\_

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Space for rough work

18) Which rotation must be made to Picture 1 so that it will look like Picture 2?



- A)  $\frac{1}{2}$  of a rotation clockwise
- B)  $\frac{1}{2}$  of a rotation counter clockwise
- C)  $\frac{1}{4}$  of a rotation counter clockwise
- D)  $\frac{3}{4}$  of a rotation counter clockwise

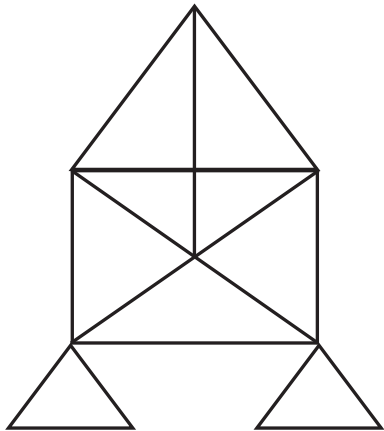
19) Linh's hockey game begins at 4:25 p.m. If it takes her 45 minutes to get to the arena from her house, 10 minutes to put her equipment on, and 20 minutes to warm up for her game, at what time must she leave her house to be ready for her game at exactly 4:25 p.m.?

- A) 3:10 p.m.      B) 3:15 p.m.      C) 3:25 p.m.      D) 3:40 p.m.

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Space for rough work

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



A) 15

B) 16

C) 17


D) 18

\_\_\_\_\_

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Space for rough work





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