

**GRADE 2**

# Spirit of Math International Contest 2022

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.
- 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**



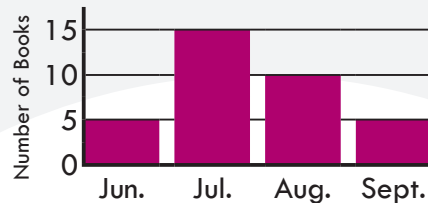
1)  $6 + 4 + 17 + 3 + 8 + 2 = ?$   
 A) 20                      B) 25                      C) 35                      D) 40                      \_\_\_\_\_

2) Which of the following is an odd number?  
 A) 12                      B) 15                      C) 16                      D) 20                      \_\_\_\_\_

3) If today is March 26<sup>th</sup>, what month comes next?  
 A) April                      B) February                      C) June                      D) May                      \_\_\_\_\_

4) Adil bought 15 cookies. He ate seven of them on his way home from the store. How many cookies does he have left?  
 A) 8                      B) 9                      C) 10                      D) 11                      \_\_\_\_\_

5) The graph to the right shows the number of books Arjun read each month. In which month did Arjun read the most books?



A) June                      B) July                      C) August                      D) September                      \_\_\_\_\_

6) What comes next in the pattern? 12, 18, 24, 30, \_\_\_\_\_  
 A) 32                      B) 34                      C) 36                      D) 40                      \_\_\_\_\_

7) In a long line of Leapfrog, Yasmin makes 4 leaps in 1 minute. How many leaps can Yasmin make in 6 minutes?  
 A) 20                      B) 24                      C) 26                      D) 30                      \_\_\_\_\_

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Space for rough work

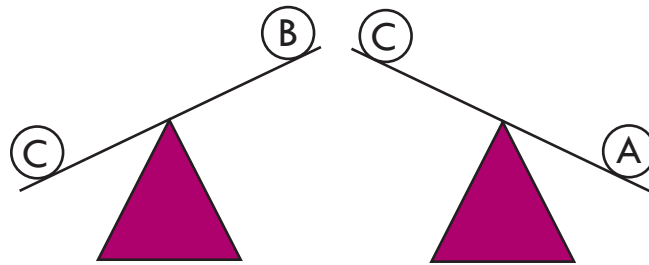


- 8) Jason is 9 years old. Jane is twice as old as Jason. How old will Jane be in a year?  
A) 11                      B) 12                      C) 18                      D) 19                      \_\_\_\_\_
- 9) Ted has 3 jelly beans. Sadie has 4 more jelly beans than Ted. How many jelly beans do they have in total?  
A) 7                      B) 9                      C) 10                      D) 14                      \_\_\_\_\_
- 10) San started reading his book "The Amazing Cats" at the top of page 3 and finished reading at the bottom of page 9. How many pages did San read?  
A) 5                      B) 7                      C) 8                      D) 9                      \_\_\_\_\_
- 11) There is a lineup of people outside the theatre. Oliver is the 3<sup>rd</sup> person from the front of the line and the 4<sup>th</sup> person from the back of the line. How many people are in the lineup?  
A) 5                      B) 6                      C) 7                      D) 8                      \_\_\_\_\_
- 12) A total of 17 alley cats have either brown fur, white fur, or both brown and white fur. There are 10 cats with brown fur and 11 cats with white fur. How many alley cats have both brown and white fur?  
A) 4                      B) 6                      C) 7                      D) 21                      \_\_\_\_\_

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Space for rough work

13) The scales below are weighing some balls. Which ball is the heaviest?



- A) Ball A      B) Ball B      C) Ball C      D) Ball A and Ball C

14) Dr. Division discovered two new creatures: the centimete and the millimillar. He counted 120 legs and 45 heads on the creatures. Which question below should you ask Dr. Division to help him find out how many centimetes he saw?

- A) How many legs were there in total?      C) Did he find more centimetes or more millimillars?  
B) How many legs does a centimete have and how many legs does a millimillar have?      D) Where did he find these new creatures?

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Space for rough work

- 15) Aisha, Bob, Chung and Danny live in the same apartment building. There are four floors and they each live on a different floor:

- Danny lives right above Bob, but not on the fourth floor
- Aisha does not live on the first floor
- Chung lives above Aisha



Who lives on the third floor?

- A) Aisha                      B) Bob                      C) Chung                      D) Danny                      \_\_\_\_\_
- 16) Seven pianists performed at Orpheum Theatre. At the end of the performance, each pianist shook hands with all other pianists once. How many handshakes were there in total?
- A) 14                      B) 21                      C) 28                      D) 42                      \_\_\_\_\_
- 17) The time in Beijing, China is 16 hours ahead of the time in Vancouver, Canada. If it is 9:42 p.m. in Vancouver, what time is it in Beijing?
- A) 1:42 a.m.                      B) 5:42 a.m.                      C) 1:42 p.m.                      D) 5:42 p.m.                      \_\_\_\_\_



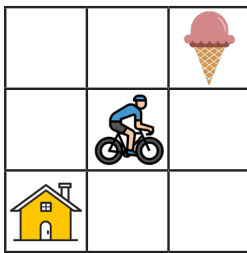

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Space for rough work

- 18) Each letter in the addition problem on the right represents a different digit. What is the sum of B and E?

$$\begin{array}{r}
 \text{B E E} \\
 + \quad \text{E E} \\
 \hline
 576
 \end{array}$$

- A) 10                      B) 11                      C) 12                      D) 13                      \_\_\_\_\_
- 19) Jaxon is playing his favourite video game, *Bike Helpers*. His character needs to buy ice cream on the way home. Which of the following options will direct Jaxon's character (🚲) to the ice cream store (🍦) and then home (🏠)?



- U** = move one space up
- R** = move one space right
- L** = move one space left
- D** = move one space down
- \*** = buy ice cream

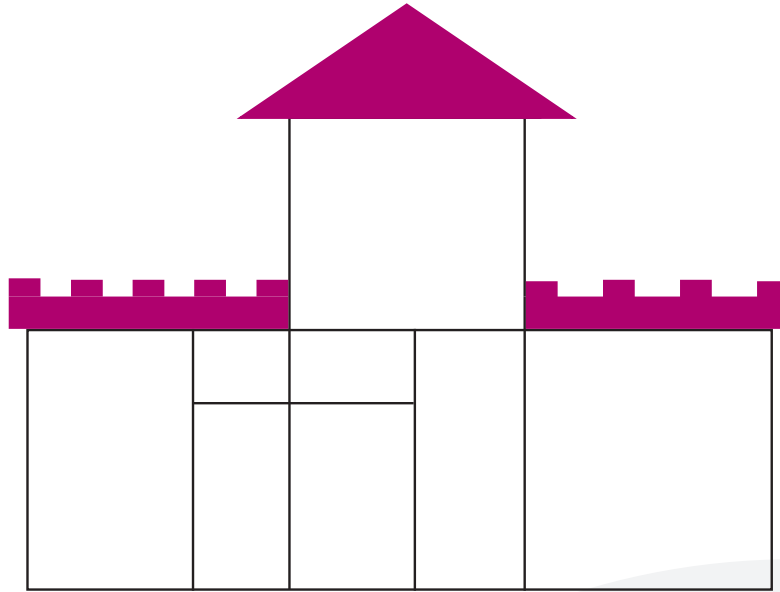
- A) RU\*LDDR              B) DRUU\*LDDL              C) UR\*DDDL              D) LUR\*DDL              \_\_\_\_\_

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Space for rough work



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



A) 21


B) 22

C) 23

D) 24

\_\_\_\_\_

Space for rough work



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