Spirit of Math
Releasing the Genius ®

GRADE 1

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) $9 + 1 + 4 + 6 = ?$
   A) 10   B) 15   C) 20   D) 30   ____

2) Which of the following is a triangle?

   A) △   B) □   C) ⬠   D) ◯   ____

3) What comes next in the pattern? 2, 4, 6, 8, ____
   A) 9   B) 10   C) 11   D) 12   ____

4) Which day of the week comes right after Thursday?
   A) Friday   B) Monday   C) Sunday   D) Tuesday   ____

5) Maya planted 8 flowers. Shirley planted 7 flowers. How many flowers did Maya and Shirley plant altogether?
   A) 12   B) 13   C) 14   D) 15   ____

6) What is the date three days before August 11th?
   A) August 7th B) August 8th C) August 9th D) August 10th ____

7) Elijah's favourite animal, a penguin, has two feet. Elijah saw six penguins at the zoo. He counted all their feet. How many feet did he count?

   A) 6   B) 9   C) 10   D) 12   ____

_____

Space for rough work

8) Marya has two pieces of a puzzle that fit together to make a square. On the right, there is a picture of one of the pieces, what must the other piece look like?
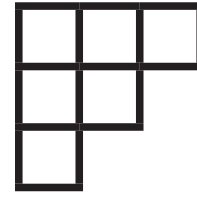
A) ⬜⬜⬜⬜ B) ⬜⬜⬜ C) ⬜⬜ D) ⬜⬜ ____

9) Ian is 4 years older than I am. If I am 6 years old, how old is Ian?
   A) 2   B) 6   C) 8   D) 10   ____

10) Lisa played the piano from 4:30 p.m. until 4:50 p.m. How long did Lisa play the piano?
   A) 20 minutes   B) 25 minutes   C) 30 minutes   D) 50 minutes   ____

11) There are two cats sitting on the street, a grey cat and a white cat. One of the cats is not a white cat, what is the other one?

    A) A dog   B) A pink cat   C) A grey cat   D) A white cat   ____

Space for rough work

12) Daria cut her square birthday cake into 16 equal pieces before she shared it with her friends. The remaining pieces of cake are shown in gray to the right. How many pieces of cake were eaten?
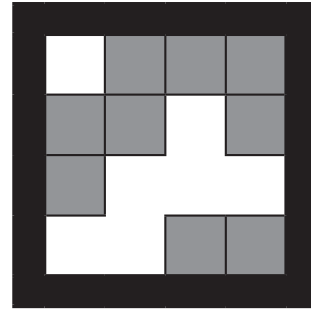
A) 5   B) 6   C) 7   D) 8   ____

13) Amy and her three friends want to share a cucumber for a snack. How many parallel cuts will Amy need to make so that each person gets one piece of cucumber? What is the first thing you need to figure out before solving this problem?
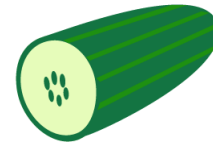
A) How long the cucumber is.

B) How many parallel cuts Amy needs to make.

C) How long it takes Amy to cut one piece of cucumber.

D) How many pieces of cucumber are needed in total.

    ____

14) Eleven students bought books at the annual book fair. Six students bought comic books, eight students bought poetry books and some of those students bought both. How many students bought both books?

A) 2   B) 3   C) 5   D) 6   ____

Space for rough work

15) Six children went to the Spooky Shadow Halloween Party. All but two children wore a happy mask. How many children did NOT wear a happy mask?

A) 2   B) 4   C) 5   D) 6   ____

16) Aarav baked 19 cookies. He wants to put them in boxes with four cookies in each box. How many **full boxes** of cookies can he make?

A) 2   B) 3   C) 4   D) 5   ____

17) Ava, Brie, Cate, and Dia rode their bicycles in a race. Cate finished behind Brie who finished behind Ava. Ava was not in front. Who finished in second place?

A) Ava   B) Brie   C) Cate   D) Dia   ____

_____

Space for rough work

18) Martha made a Mega Cube by gluing eight small cubes together. She accidentally dropped her Mega Cube into a paint bucket, and her entire cube got covered in blue paint. How many faces of the small cubes have paint on them?
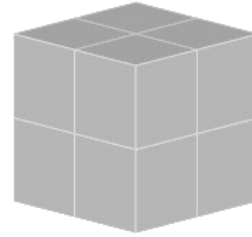
A) 12   B) 16   C) 20   D) 24   ___

19) Hassina uses ▢ and △ to represent two different digits in the addition problem on the right. What is the sum of ▢ and △?
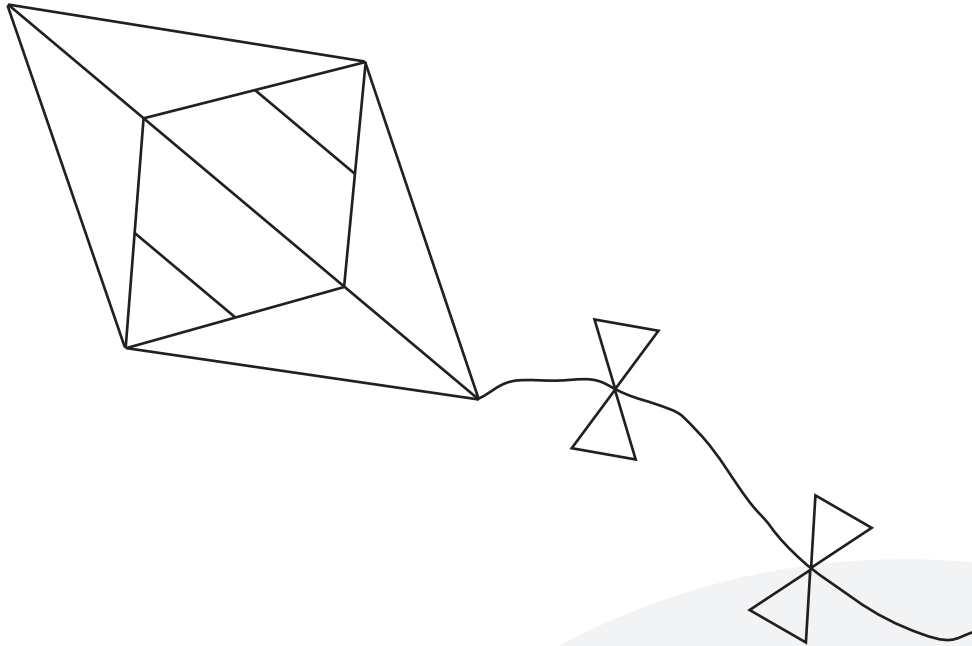
$$
\begin{array}{r}
2\ \square \\
+\quad 3 \\
\hline
\triangle\ 2
\end{array}
$$

A) 10   B) 11   C) 12   D) 13   ___

Space for rough work

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

A) 14   B) 16   C) 18   D) 20   ___

Space for rough work

To promote co-operation, inspire confidence and Release the Genius® in every child.