

Releasing the Genius®

Smile
Developed by

Stanford
University

GRADE 3

Spirit of Math International Contest 2020

In collaboration with SMILE developed by Stanford University

INSTRUCTIONS

- You have **45 minutes** to write the contest.
- The contest is multiple-choice with four choices for each question.
- 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.
- Each question answered correctly is worth one mark, and the sum of the correct answers is the score.
- Marks are not taken off for wrong answers.
- No calculators or other counting tools are allowed.



Student Name:

Score:

/30

- 1) 16 + 3 + 11 + 4 + 9 + 7 = ?
 - A) 40

B) 46

C) 50

- D) 60

2) What is the next item in line?



- A)
- B) 🧾

C)

- D) (
- ____

- 3) Celia saw five dogs at the park. How many legs did she see?
 - A) 5

B) 10

C) 15

- D) 20
- ____

- 4) The sum of 198 and 301 is closest to which of the following?
 - A) 100 + 200
- B) 100 + 300
- C) 200 + 300
- D) 300 + 300
- 5) What two numbers come next in this pattern: 2, 4, 6, 8, ____,
 - A) 9, 10
- B) 9, 11
- C) 10, 12
- D) 12, 14

- 6) $4 \times 3 \div 12 \times 2 = ?$
 - A) 1

B) 2

C) 4

D) 8

- 7) There are 30 carrots to share among 10 students. If everyone receives the same number of carrots, how many does each person receive?
 - A) 3

Page 2

B) 5

C) 6

D) 10

8)	During class, Peter made a T-shirt with his name on it. He went to check his T-shirt in the mirror. Which of the following images shows what Peter saw in the mirror?					
	A) Peter	reteP (8	Peter (O	D) Peter		
9)	The word 'level' is a palindrome because it can be read the same way forwards and backwards. Which of the following numbers is also a palindrome?					
	A) 11234	B) 14241	C) 122121	D) 234132 _		
10)	It takes 25 minutes for Jocelyn to walk to the bus stop. What time should she leave her house to arrive at the bus stop at 9:55 a.m.?					
	A) 9:30 a.m.	B) 9:35 a.m.	C) 9:42 a.m.	D) 9:45 a.m		
11)		rmaine bought one dozen cookies. Denton bought twice as many cookies as rmaine. How many cookies did Denton buy?				
	A) 6	B) 12	C) 24	D) 48		
12)	who was in 3 rd place	was running a 5 km marathon. Just before the finish line, she sprinted past Alex, was in 3 rd place, and happily crossed the finish line without passing anyone What place did Alex finish in the marathon if he was right behind Janis?				
	A) 1 st	B) 2 nd	C) 3 rd	D) 4 th		
13)	previous rock. The fir	Math Rocks Collection, each rock weighs three kilograms more than the us rock. The first rock weighs 3 kg. How much does the fourth rock weigh?				
	A) 6 kg	B) 8 kg	C) 9 kg	D) 12 kg		



14)	Which of the following options has the greatest total number of sides?					
	A) 3 squares	B) 2 hexagons	C) 3 pentagons	D) 4 triangles	_	
15)	Reese had 20 tomato slices for her pizza toppings. She wanted to put all but 12 tomato slices on her pizza. How many tomato slices are on her pizza?					
	A) 8	B) 10	C) 12	D) 32	_	
16)	The mouse passes more cheese. How many so shortest route to the A) 24	•		D) 27		
	A) 24	b) 23	C) 20		_	
17)	Ruth collects shells at the shore. Every day, she collects twice the number of shells as the previous day and puts them in her treasure box. If she found 160 shells of the 5^{th} day, how many shells did she find on the 2^{nd} day?					
	A) 10	B) 20	C) 40	D) 80		
18)	6 star fruits from each	rancis has 2 star fruit trees, 2 durian trees, and 2 papaya trees. Francis picked star fruits from each star fruit tree, 4 papayas from each papaya tree, and ally one durian fruit. How many pieces of fruit did Francis pick?				
	A) 11	B) 17	C) 21	D) 22	_	

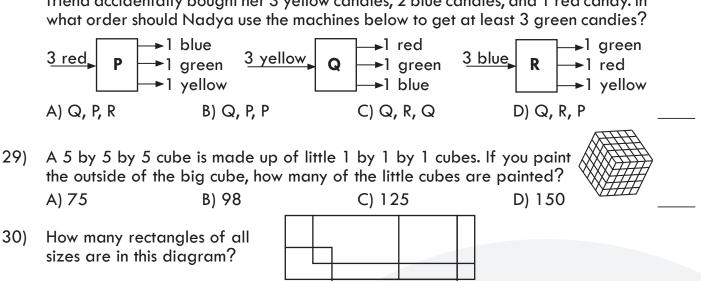
Sarah got an average of 32 out of 40 on her first 5 math drills. What does she need to score on her 6 th drill to get an overall average of 33 out of 40?					
A) 33	B) 35	C) 38	D) 40		
At the park, there are 30 puppies that have either white fur, black fur, or both. Twenty puppies have white fur and 15 puppies have black fur. How many puppies have both black and white fur?					
A) 5	B) 15	C) 20	D) 25		
21) When I was 6 years old, my sister was half my age. How old is my sister am 50 years old today?					
A) 3	B) 25	C) 44	D) 47		
Phyllis has a bag of 19 marbles: 7 green, 3 blue, 4 yellow, and the rest are red. Without looking into the bag, what is the least number of marbles that Phyllis should take out to be sure that she has at least one yellow marble?					
A) 4	B) 15	C) 16	D) 19		
23) Enoch is playing basketball. Some of his shots are worth 3 points and the rest are worth 2 points. If he made 38 shots into the basket and scored 85 points in total, how many shots were worth 3 points?					
A) 9	B) 12	C) 24	D) 38		
	need to score on her A) 33 At the park, there as Twenty puppies have both to A) 5 When I was 6 years am 50 years old to A) 3 Phyllis has a bag of Without looking into should take out to be A) 4 Enoch is playing bas are worth 2 points. It total, how many shows	A) 33 At the park, there are 30 puppies that he Twenty puppies have white fur and 15 puppies have both black and white fur? A) 5 B) 15 When I was 6 years old, my sister was he am 50 years old today? A) 3 B) 25 Phyllis has a bag of 19 marbles: 7 green Without looking into the bag, what is the should take out to be sure that she has at A) 4 B) 15 Enoch is playing basketball. Some of his are worth 2 points. If he made 38 shots it total, how many shots were worth 3 points.	need to score on her 6th drill to get an overall average of 33 A) 33 B) 35 C) 38 At the park, there are 30 puppies that have either white fur, I Twenty puppies have white fur and 15 puppies have black fur puppies have both black and white fur? A) 5 B) 15 C) 20 When I was 6 years old, my sister was half my age. How old am 50 years old today? A) 3 B) 25 C) 44 Phyllis has a bag of 19 marbles: 7 green, 3 blue, 4 yellow, and Without looking into the bag, what is the least number of mark should take out to be sure that she has at least one yellow mark A) 4 B) 15 C) 16 Enoch is playing basketball. Some of his shots are worth 3 po are worth 2 points. If he made 38 shots into the basket and so total, how many shots were worth 3 points?		



24)	4) At the Sports Store, two bats and three gloves cost \$21. Three bats and two gloves cost \$19. How much does one bat and one glove cost altogether?				
	A) \$8	B) \$12	C) \$15	D) \$40	
25)	If the first day of the year is on a Monday, what day of the week is the 32 nd day?				
	A) Sunday	B) Wednesday	C) Thursday	D) Saturday	
26)	Which is the correct the figure from abov	view for someone whee?	c)	D) ——	
27)	What is one half of half a pie? Which question below requires the correct logical thinking to solve this problem?				
	A) How do you write one half?				
	B) What is being cut in half? C) How could I draw this to show one half of one half?				
	D) How big is the pie to start?				

D) 24

28) In each of the machines below if you put 3 candies into a machine, 3 different candies will come out. For example, if 3 red candies are put into machine P, it will give back 1 blue, 1 green, and 1 yellow candy. Nadya loves green candies. Her friend accidentally bought her 3 yellow candies, 2 blue candies, and 1 red candy. In what order should Nadya use the machines below to get at least 3 green candies?

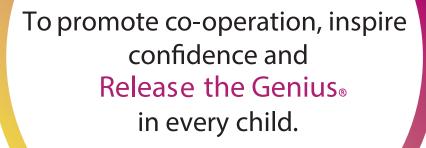


Space for rough work

B) 22

C) 23

A) 21



For more information, please visit: spiritofmathcontest.com





