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Developed by

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GRADE 3

Spirit of Math International Contest 2022

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.
- 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)	7 + 6 + 13 + 9 + 14 + 1= ?									
	A)	20	B)	30	C)	45	D)	50		
2)		sun was shining to many days was			and t	he rest of the we	eek v	vas cloudy.		
	A)	3	B)	4	C)	5	D)	7		
3)	_					piece of paper. mbol in the patte	_	ıds:		
	A)	@	B)	®	C)	©	D)	§		
4)	Lily	counted two doz	en st	ars in the night s	ky! F	low many stars c	lid sh	ne count?		
	A)	6	B)	12	C)	18	D)	24		
5)	bac		mple,	the number 202		the same forwar palindrome. Wh				
	A)	1011	B)	1100	C)	1221	D)	2211		
6)	Sam works at a bicycle repair shop that only has bicycles with 2 tires. One morning, he inspects the tires of 5 bicycles. How many tires does he inspect in total?									
	A)	5	B)	10	C)	20	D)	40		
7) Joanna needs to arrive at the airport 2 hours before her flight takes off 9:45 p.m. What time should she arrive at the airport?					es off at					
	A)	7:45 p.m.	B)	8:45 p.m.	C)	10:45 p.m.	D)	11:45 p.m.		

8)	What is five times the number of sides of a hexagon?								
	A)	20	B)	25	C)	30	D)	35	
9)	If a shape can be folded in half with both halves identical, then it has a line of symmetry. For example, one line of symmetry is shown in the square to the right. Which shape below has a dotted line that is a line of symmetry?								
	A)		B)		C)		D)		
10)	Who	at is the next n	umber	in the pattern?	3, 4,	6, 9,			
	A)	10	B)	11	C)	12	D)	13	
11)	sing	le jump. If the	grassh o will		frog st umber The f		o acr	oss a log that	
12)	-	phanie went to	-	_		Bunnies			
			A	e saw in the cha presents three	Sheep				
	to the right. Each represents three animals. How many sheep did Stephanie see?								
	A)	4	B)	11	C)	12	D)	15	
13)	3) One-half of Soleila's friends know how to play the piano. If Soleila has 20 friends, how many of her friends can play the piano?								
	A)	4	В)	5	C)	10	D)	15	
	Space for rough work								

14)	4) Matilda likes the numbers 5, 15, 20, 30, and 35, but not 3, 8, 11, 21, Which of the following numbers will Matilda like?						21, or 26.		
	A)	12	B)	23	C)	45	D)	62	
15)	Khalil is four years older than Lei. Lei is two years younger than Sean. If Sean is 15 years old, how old is Khalil? Which question below is the first logical question you should ask to solve this problem?								
	A) Who is the oldest person?					How old is Lei?			
	B)	How old is Khali	l?		D)	How old is Sean'	?		
16)	6 kr	. ,				He travels 6 km i ar is he now from		W E	
	A)	0 km	B)	5 km	C)	6 km	D)	19 km	
1 <i>7</i>)	7) During a bake sale, Parisa sold 20 cookies, Marlene sold 12 cookies, and Tia sold 10 cookies. What was the average number of cookies sold by Parisa, Marlene, and Tia?								
	A)	14	B)	15	C)	16	D)	18	
18)	If () + () = [] , th	en 🗌]- () = ?					
	A)	Zero	B)		C)		D)	\bigcirc	
19)	Fifty-one customers placed an order at a restaurant one afternoon. Of these, 21 of them ordered green tea, 29 ordered milk tea, and 5 ordered neither green nor milk tea. How many ordered both green and milk tea?								
	A)	4	B)	5	C)	6	D)	8	

20)	Levi is going to visit Max. He can travel north (up) and west (left) 2×5 grid of pathways. How m pathways can Levi take to visit /	on a any different wax?	Levi
	A) 7 B) 10	C) 20	D) 21
21)	The Great Wall of China is 21 to be approximately 2 cm long. centimetre on the map represen	Approximately how man	y kilometres does one
	A) 1 000 km B) 2 000) km C) 10 000 ki	m D) 20 000 km
22)	A large box of chocolates conto 6 dark chocolates. If I pick out s fewest number of chocolates I no white chocolate?	ome chocolates with my e eed to pick to be sure the	eyes closed, what is the at I have at least one
	A) 6 B) 7	C) 12	D) 13
23)	Sakura wants to plant 36 trees in her first month of planting she was plant two trees, in the third month the latest month Sakura should so A). March B) April	rill plant one tree, in the s th she will plant three tree	econd month she will
24)	My uncle's birthday is 3 days at birthday. My aunt's birthday is 4 before my birthday. If I was bor A) My uncle's B) My au	4 days after 3 days beforn on July 2 nd , whose birth	ore 6 days after 2 days anday comes first? e the D) Impossible to



25) Two pencils and three erasers cost \$8. Three pencils and two erasers cost \$7. How much does one pencil and one eraser cost? \$2 B) \$3 \$5 \$15 A) C) D) Spaceships only fly in the direction they are facing. A spaceship can collect a 26) star if it enters the same space as a star. Which spaceship will collect the most stars by following the instructions below? Instructions: 1. Move forward two spaces. 2. Turn right. 3. Move forward two spaces. Spaceship C Spaceship D A) Spaceship A B) Spaceship B C) D) 27) Vikasini is making a toy for her baby brother using eight stars. She wants to balance each piece () of the toy so all pieces hang parallel. Vikasini knows Star 3 weighs 64 grams. How much should Star 8 weigh to balance the toy?

Space for rough work

C)

32 grams

D)

64 grams

A)

8 grams

B)

16 grams

28) A computer program converts words into numbers according to a special rule. Some words and their conversions are shown below:

RED = 212, BLUE = 2211, GREEN = 22112, ORANGE = 121221

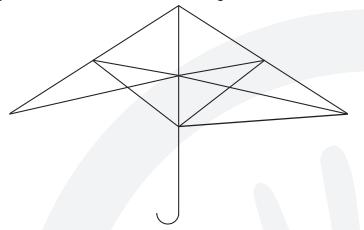
Which word will be converted into a number whose digits add up to 10?

- A) BROWN
- B) PINK
- C) SILVER
- D) WHITE
- 29) Marcia has a large 4 by 4 by 4 cube made up of little 1 by 1 by 1 cubes. She accidentally dropped her large cube into a bucket of paint, covering all faces with paint. How many of Marcia's little cubes have paint on them?

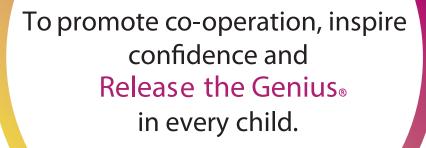


- A) 48
- B) 56
- C) 64

-) 96
- 30) How many triangles of all sizes are in this diagram?



- A) 23
- B) 24
- C) 25
- D) 27



For more information, please visit: spiritofmathcontest.com





