

Releasing the Genius®

GRADE 5

International Spirit of Math Contest 2025

INSTRUCTIONS

- You have **60 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: /40

1)	25 – A)	9	B)	27	C)	52	D)	280	
2)	-					the same forwards on make it a 7-digit			
3)	Whice	ch shape comes nex	kt in th	ne pattern?					
	A)	•	B)		C)		D)		
4)	same		\aya \	-		ird each other on a walked 205 m. How		= -	
	A)	155 m	B)	165 m	C)	175 m	D)	180 m	_
5)		needs 70 minutes p.m., at what time			f he s	tarts working on his	home	ework at	
	A)	6:00 p.m.	B)	6:20 p.m.	C)	6:25 p.m.	D)	6:45 p.m.	
6)	catch to the	nes a ball or three e "Start" line if she	steps caug	back if she does no	ot. W	ne. She can move fo hat would be her find d missed it six times	nal po ?	•	
	A) B)	Two steps forward			C) D)	Two steps backw Four steps backw			
7)	•	it is the next term in		sequence? 19, 22,	•				
•	A)	59	B)	61	, C)	64	D)	67	

8)	Today you have nine gold and three silver fish in an aquarium. In two weeks, your parents will buy you an additional gold fish and two silver fish. They will continue doing the same every two weeks. After how many weeks you will have the same number of gold and silver fish?										
	A)	11	B)	12	C)	13	D)	14			
9)	If 2 ⁴	$\times 3 \times 5 \times M = 2$	⁵ × 3 ²	\times 5 3 , what is the vo	alue of	FM?					
	A)	15	B)	30	C)	50	D)	150			
10)	The sum of a number, its square and its square root is 276. What is the number?										
	A)	4	B)	8	C)	9	D)	16			
11)				s balls, two ping po m his box. What is				_			
	A)	49	B)	<u>5</u> 9	C)	2/3	D)	7 9			
12)	Kumar's weight with pants and shoes is 52 kg. The weight of his shoes is 1.5 kg and the weight of his pants is a third of his shoes' weight. What is Kumar's weight without pants and shoes?										
	A)	48.5 kg	B)	49 kg	C)	49.5 kg	D)	50 kg	_		
13)	The number 140 is divisible by which of the following?										
	A)	21	B)	28	C)	49	D)	77			
14)				The first stick is 12 of Juan's three stick	_	long. The other two	o are 9	00 cm long.			
	A)	100 cm	В)	110 cm	C)	11 <i>5</i> cm	D)	120 cm	—		
15)	If a l	bicycle travels 10	m in 1	second, what is its	speed	I in km/h?					
	A)	6	B)	12	C)	36	D)	360			

16)	A perfect square is a number that can be expressed as a product of the same two integers. How many integers from 1 to 20 are not perfect squares?										
	A)	14	B)	15	C)	16	D)	17			
17)	Peter scored 82 on his first two tests of the term. What would he have to score on the third test to have an average of 86 on the three tests?										
	A)	86	B)	90	C)	94	D)	98			
18)	In a school of 378 students, the ratio of boys to girls is 4:5. The number of girls in the school is:										
	A)	168	B)	210	C)	270	D)	302			
19)	My mom has a black, a white, and a red container on the kitchen counter. Each container only contains one ingredient. One container has chocolate chips, another one has sugar and the third has flour. Sugar is neither in the white nor black container. Flour is not in the white container. Which container has chocolate chips?										
	A)	White	B)	Black	C)	Red	D)	Not possible to			
20)	Whic	ch of the following	numbe	ers is the greatest n	umbe	r less than 2?		determine			
	A)	11 6	B)	37 19	C)	18 9	D)	27 —			
21)		oum of two numbers eir factorials?	is 7 c	and the product of	the so	me two numbers is	10. W	/hat is the sum			
	A)	62	B)	122	C)	240	D)	5040			
22)				_		ken away from the e of the smaller nur	_				
	A)	10	B)	20	C)	30	D)				
23)	The power of light bulbs is measured in watts. The pie graph shows an inventory of light bulbs in a local hardware store. If the total number of light bulbs is 300, how many have power less than 60 watts? 100 watts										
	A)	45	B)	80	C)	105	D)	120			

- 24) If the perimeter of a square is 36 cm, then the area of the square, in cm² is:
 - A)

9

B) ∠

- C) 81
- D) 1296
- Points A, B, and C are on one line. Points D and E are on a parallel line. How many different triangles can be formed using three of the five points as vertices?



- A) 11
- B) 9

C) 7

- D E D) 5 _
- As shown in the image on the right, a regular die has numbers 0 to 5 written on it such that the sum of the numbers on the opposite sides of the die is always equal to five. If the die is rolled and the number viewed from the front is 3 and 5 from the left, what is the number at the bottom of the die?



A) 0

B) 1

C) 2

- D) 4
- The units digit of a number is the right most digit of the number. For example, the units digit of 246 is 6. What is the units digit of the product of $2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9$?
 - A) 0

B) 2

C) 4

- D) 8
- 28) What is the value of $(1 + 2 + 3 + ... + 9) \div 27 \div 25 \times 3 \times 55$?
 - A) 5

B)

- C) 11
- D) 33
- 29) The diagram represents a large square divided into four smaller squares. Which of the following statements represents the correct steps to find the area of the shaded region on the diagram?

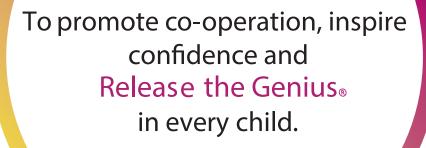


- From the area of the large square take away a quarter of the circle
- B) From the area of the large square take away the area of a semi-circle
- Add the area of half of the large square and the area of a semi-circle
- D) Add the areas of the two small squares and the area of a semi-circle

30)	A factory has a packaging machine that has been wrapping candies for 10 hours. The machine can wrap 12 candies every 20 minutes. If the owner of a local convenience store bought 72 of the wrapped candies, what percent of the candies did he buy?									
	A)	10%	В)	15%	C)	20%	D)	30%		
31)	A quadrilateral has interior angles A, B, C, and D. Angle A is half the size of angle B and angle B is half the size of angle C. Angles B and D have the same size. What is a measure, in degrees, of angle A?									
	A)	20°	B)	40°	C)	50°	D)	80°		
32)	Mao, Nam, and Rob are in a team representing their school in a track-and-field competition. Each of the boys run a part of the field and pass a baton to the next runner. The field is 1.6 km long. Mao ran 40% of the field's length before passing the baton to Nam who ran 20% of the remaining part of the field. Finally, Nam passed the baton to Rob who ran the final part of the field. What is the length of the part of the field run by Rob?									
	A)	192 m	B)	384 m	C)	640 m	D)	768 m		
33)	After your school basketball tournament all players from one team gave handshakes to all players from the other team. If one of the teams had one more player than the other and if there were a total of 30 handshakes between the players, how many players were on the team with more players?									
	A)	5	B)	6	C)	9	D)	10		
34)	Nathan has a solid wooden cube measuring 5 by 5 by 5. He paints all of its faces green. After the paint dries, he cuts the cube into 125 identical smaller cubes, each 1 by 1 by 1. How many of these smaller cubes have exactly four faces that are NOT painted?									
	A)	24	В)	27	C)	36	D)	48		
35)				present the numbe hat number does (o 6 in some order, o esent?	and A	+ B = C,		
	A)	1	B)	2	C)	3	D)	4		
					1	and a				

36)	In Cecilia's backyard there are chickens and dogs (no other animals). Among them there is a total of 222 eyes and 266 legs How many dogs does Cecilia have in her back yard?											
	A)	1	l			B)	20	C)	22	D)	44	
37)	The product of all natural numbers from 1 to 25 is divisible by which of the following num									owing numbers?		
	A)	58	3			B)	93	C)	161	D)	205	
38)	If you can mow a lawn 90m by 90m in an hour, how long will it take you to mow a lawn $45m$ by $45m$?											
	A)	10) mir	1		B)	15 min	C)	20 min	D)	30 min	
39)	Wh	en 1	049 -	– 2 is	s writte	n as c	a natural number, th	ne sum	of its digits is			
	A)	4	40			B)	449	C)	450	D)	451	
40)	Dhruv wants to send a secret message to Anja. He encrypted his message in the following way. Suppose his message is "SEE YOU TOMORROW AT SCHOOL". He writes a message in a matrix, determining the length of a row. If, for example, the length of a row is five, he would write it as:											
	S	Е	E	Υ	0							
	U	Т	0	М	0							
	R	R	0	W	Α							
	T O	S L	С	Н	0							
	Then, he encodes his message by reading off the columns to get: "SURTOETRSLEOOCYMWHOOAO". When Anja decrypted the message "LMTOSEETRTTEHNOUTEERSACRE" received from Dhruv											
	A)	_		-			nich of the following GETHER ANJA	g : C)	LEAVE THE APPLES	IN TH	HE BASKET	
	B)						ORNER STORE	D)	LET'S DANCE IN TH			
	•							•				





For more information, please visit: spiritofmathcontest.com





