

2017-2018 年度美国"大联盟"(Math League)思维探索第一阶段活动

(三年级)

(活动日期: 2017年11月26日, 答题时间: 90分钟, 总分200分)

学生诚信协议:答题期间,我确定没有就所涉及的问题或结论,与任何人、用任何方式交流或讨论,我确定我所填写的答案均为我个人独立完成的成果,否则愿接受本次成绩无效的处罚。

选择题:每小题 5 分,答对加 5 分,答错不扣分,共 200 分。

I.	5 + 6 + 7 + 1825 +	175 =						
	A) 2015	B) 2016	C) 2017	D) 2018				
2.	The sum of 2018 a	The sum of 2018 and _?_ is an even number.						
	A) 222	B) 223	C) 225	D) 227				
3.	John and Jill have have?	\$92 in total. John	has three times as	much money as Jill. How much money does John				
	A) \$60	B) \$63	C) \$66	D) \$69				
4.	Tom is a basketball lover! On his book, he wrote the phrase "ILOVENBA" 100 times. What is the 500 letter he wrote?							
	A) L	B) B	C) V	D) N				
5.	An 8 by 25 rectangle has the same area as a rectangle with dimensions							
	A) 4 by 50	B) 6 by 25	C) 10 by 22	D) 12 by 15				
5.	What is the positive 50 positive integer		een the sum of the	e first 100 positive integers and the sum of the next				
	A) 1000	B) 1225	C) 2025	D) 5050				
7.		You have a ten-foot pole that needs to be cut into ten equal pieces. If it takes ten seconds to make each cut, how many seconds will the job take?						
	A) 110	B) 100	C) 95	D) 90				
3.	Amy rounded 2018 numbers is	8 to the nearest ter	ns. Ben rounded 2	018 to the nearest hundreds. The sum of their two				
	A) 4000	B) 4016	C) 4020	D) 4040				
).	Which of the follow	Which of the following pairs of numbers has the greatest least common multiple?						
	A) 5,6	B) 6,8	C) 8,12	D) 10,20				
10.	For every 2 pencils buy?	s Dan bought, he a	ilso bought 5 pens	s. If he bought 10 pencils, how many pens did he				
	A) 25	B) 50	C) 10	D) 13				
11.	Twenty days after	Thursday is						
	A) Monday	B) Tuesday	C) Wednesday	D) Thursday				

12.	Of the following,	? angle has the	least degree-mea	sure.		
	A) an obtuse	B) an acute	C) a right	D) a straight		
13.	Every student in my class shouted out a whole number in turn. The number the first student shouted out was 1. Then each student after the first shouted out a number that is 3 more than the number the previous student did. Which number below is a possible number shouted out by one of the students?					
	A) 101	B) 102	C) 103	D) 104		
14.	A boy bought a bas bat, how much did		aying \$1.25 for bo	oth items. If the ball cost 25 cents n	nore than the	
	A) \$1.00	B) \$0.75	C) \$0.55	D) \$0.50		
15.	2 hours + _?_ min	nutes + 40 second	s = 7600 seconds			
	A) 5	B) 6	C) 10	D) 30	Q	
16.	•	0 1		even circles so that the three digits n the middle circle?	middle circl	
	A) 3	B) 4	C) 5	D) 6		
17.	If 5 adults ate 20 a that each person at		children ate 12 app	ples in total, what is the average nu	mber of apples	
	A) 12	B) 14	C) 15	D) 16		
18.	What is the perime are right angles or	1850°C 245000	n the right? Note:	All interior angles in the figure 20	40	
	A) 100	B) 110	C) 120	D) 160	(60 Tellan)	
19.				re 10 people in front of Andy. e are between Andy and Susan?		
	A) 18	B) 19	C) 20	D) 21		
20.	Thirty-nine hours a	after 9:00 AM is			灣寬	
	A) 1:00 AM	B) 12:00 PM	C) 8:00 PM	D) 12:00 AM		
21.	200 + 400 + 600 +	800 = (1 + 2 + 3)	+ 4) × <u>?</u>			
	A) 2	B) 20	C) 200	D) 2000		
22.	1111 (the number	er consisting of 20	16 1's) is not a m	ultiple of		
	A) 11	B) 111	C) 1111	D) 11111		
23.	The average of two	thousands and tv	vo millions is			
	A) 10000	B) 1000000	C) 1001000	D) 1111000		
24.	A triangle has the same area as a square. If the length of a base of the triangle is the same as the side-length of the square, and the height of the triangle to the base is 4, what is the area of the square?					
	A) 1/2	B) 2	C) 4	D) 8	_	
25.	ran a lap around a third side has a wh might have run in	ll three sides. Two nole-number lengt one lap?	sides of the field th. What is the gre	triangle, she was so excited that she have lengths of 505 m each, and the atest possible distance that Volta	() () () ()	
	A) 2016	B) 2017	C) 2018	D) 2019		

26.25.66.75.0							
$26.25 \times 66 = 75 \times ?$		C) 16	D) 00				
Accessed to the control of the contr		C) 16	D) 33				
27. The number that has an odd number of whole number divisors is							
A) 15 B)	6) 16	C) 17	D) 18				
28. In a sequence of 8 numbers, the average of the 8 terms is 15. If the average of the first three terms is 16 and the average of the next two terms is 15, what is the average of the last three terms?							
A) 12 B)	3) 13	C) 14	D) 15				
50 March 10	050 are leap year	10 march 10	4 are leap years. No other years ys are there all together in the 17				
A) 6209 B)	6) 6030	C) 5018	D) 5019				
30. The sum of the hundre	reds digit and the	e tens digit of 235	57 is				
A) 5	8) 8	C) 10	D) 12				
31. Which of the expressi	ions below has t	he greatest value	of (quotient × remainder)?				
A) $27 \div 4$ B)) 47 ÷ 6	C) 57 ÷ 8	D) 87 ÷ 12				
32. I have some dimes and quarter, I will have \$5			ns are worth \$3. If I replace every nickel with a				
A) 10 B)	3) 15	C) 20	D) 25				
33. I am a lovely cat. When I multiply the digits of a whole number and the product I get is 9, I put that whole number on my list of favorite numbers. Of the whole numbers from 1000 to 9999, how many would I put on my list of favorite numbers?							
A) 5 B)	3) 10	C) 15	D) 20				
34. The sum of the tens digit and the units digit of the sum $1+12+123+1234++123456789$ is							
A) 4 B)	5) 5	C) 6	D) 7				
35. The product of all prin	ime numbers bet	ween 1 and 10 is					
A) 210 B)	3) 105	C) 1890	D) none of the above				
36. What is the average of 12, 14, 16, and 18?							
A) 13 B)	3) 14	C) 15	D) 16				
37. When Jon shouts out a whole number, Al shouts out the product of its digits, Barb shouts out the product of the digits of the number Al shouted out, and Cy shouts out the product of the digits of the number Barb shouted out. When Cy shouts out 18, what number might Jon have shouted out?							
A) 789 B)	3) 799	C) 899	D) 999				
38. Each big box contains 3 medium boxes, each medium box contains 2 small boxes, and each small box contains 5 apples. How many big boxes are necessary for 1200 apples? A) 30 B) 40 C) 50 D) 60							
	A) 30 B) 40 C) 50 D) 60 9. Eighteen years from now, my age will be 4 more than twice my current age. My age now is						
			D) 18				
**************************************			garre 3.				
with no stars). After s	0. Each time Wanda waved her wand, 4 more stars appeared on her dress (which started with no stars). After several waves, Wanda multiplied the total number of stars then on her dress by the number of times she had waved her wand. This product cannot be						

B) 256 C) 364 D) 676

A) 144

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题号	1	2	3	4	5	6	7	8	9	10
答案	D	A	D	С	Α	В	D	С	Α	Α
题号	11	12	13	14	15	16	17	18	19	20
答案	C	В	C	В	В	В	В	С	Α	D
题号	21	22	23	24	25	26	27	28	29	30
答案	C	D	С	С	D	Α	В	С	Α	В
题号	31	32	33	34	35	36	37	38	39	40
答案	В	D	В	В	Α	С	С	В	В	C