

GRADE 4

Spirit of Math International Contest 2024

INSTRUCTIONS

You have 45 minutes to write the contest. The contest is multiple-choice 2 with four choices for each question. Write the CAPITAL letter of the answer you choose on 3 the line to the right of each question. 4 5 answers. 6

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

No calculators or other counting tools are allowed.

Student Name:

Score: /30

2024 Spirit of Math Grade 4 Contest

				Space fo	or roug	h work			
				class				information	
7)	Tess choo A)	a is deciding w oses to take the The art class	hethe one B)	r she wants to t that is not the m The dance	ake a nusic clo C)	dance class or a ass. Which is the The music class	musi othe D)	ic class. She r one? Not enouah	
6)	Chri two A)	stopher is grac weeks from too June 13 th	luating day, v B)	g trom high sch /hat is today's d June 17 th	ool on date? C)	June 27"! If his July 18 th	D)	July 21st	
	A)	1461	B)	1467	C)	1475	D)	1480	
5)	Who ten,	en counting the resulting in 14	numb 70. W	er of students i /hich of the foll	n his sc owing	hool, Amar roun could be the nun	ded nber	to the nearest of students?	
4)	A po bac A)	alindrome is a 1 kwards (e.g., 2 135531	numbe 112 c B)	er or word that and MOM). Wh 789789	can be ich of C)	e read the same the following is r RACECAR	forw not a D)	ards and palindrome? REPAPER	1 <u>1</u>
,	cuts, A)	how many pie 6	ces do B)	pes she have? 7	C)	8	D)	9	
3)	, Mini	nie wants to sha	, are he	r hot dog with	her frie	ends. If Minnie m	, akes	seven parallel	
2)	Muh eacl A)	ammad raised h food bank re \$15	\$135 ceive B)	5 for the three f assuming the m \$25	ood bo oney is C)	anks in his city. H s split evenly? \$35	ow n D)	nuch money will \$45	
,	A)	20	B)	30	C)	40	D)	50	



- 13) Mina has a vegetable garden with pepper plants and tomato plants. Each pepper plant has two peppers and each tomato plant has four tomatoes. If Mina has ten plants and 32 vegetables, how many pepper plants does she have?
 A) 4
 B) 5
 C) 6
 D) 7
- 14) Sally has one fair six-sided dice. What is the probability that she will roll one prime number?
 - A) $\frac{1}{2}$ B) $\frac{1}{4}$ C) $\frac{4}{9}$ D) $\frac{5}{9}$
- 15) If you want to insert the digit 6 somewhere in the number 983 to make the largest possible four-digit number, where should you insert the digit 6?

A) At theB) Between the 9 C)Between the 8 D)At the end ofbeginning ofand 8and 3983

16) Yuna likes the numbers 3, 15, 21, 24, and 33, but she does not like the numbers 5, 8, 11, 14, or 28. Which of the following numbers will Yuna like?
A) 10
B) 16
C) 22
D) 30

17) There are 15 students in a chemistry class. Every day, two students are chosen to help demonstrate a chemistry experiment. If every student demonstrates an experiment with every other student once, how many experiments will be demonstrated altogether?

A) 105 B) 113 C) 210 D) 225

Space for rough work

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18) At Fei's school, there are 78 lockers. All the lockers with odd numbers that are divisible by three have been reserved for the students in her homeroom class. How many students are in Fei's homeroom class? What is the best logical question you could ask to help you solve this problem?

	A)	Are there any students who never use their lockers?	B)	How many lockers are there in total in Fei's high school?	C)	How many odd numbers are there between 1 and 78?	D)	How many odd numbers between 1 and 78 are divisible by 3?	
19)	Vla doe	dimir scored 11 es he need to sco	poin ore in	ts in each of his his fourth game	first tl e to ac	nree tennis gam chieve an avera	es. Ho ge of	ow many points 13?	
	A)	3	B)	12	C)	19	D)	52	
20)	In a cod	secret code, 10 e, what series o	5.9.1. ∙f num 1⊿	14.15 represen Ibers represents	ts the the w	word PIANO. U ord VIOLIN?	sing t	he same secret	
	(A)	22.7.15.12.7.	14		וס	22.7.10.12.7.	14		
21)	Free min A)	derica is baking utes, how many 84	cupc cupco B)	akes. If she can akes can she bal 96	bake ke in (C)	a dozen cupcal 3.75 hours? 108	kes ev D)	very 25 120	
22)	Ami for cost mor	ita is deciding b the first five mo s \$80 for an en nths, which optio	oetwe nths c ntire y on is th	en two cell phor ind \$9 every tw rear of service. ne least expensi	ne pla ro mor lf Ami ve ove	ns. Connect+ co ths after that. A ta keeps her ce erall?	sts \$1 Neanv II pho	0 a month vhile, Phones+ ne plan for 11	
	A)	Connect+	B)	Phones+	C)	Both cost the	D)	Not enough	
						same		information	
				Space for	rougł	ו work			

23) The diagram to the right is made up of five identical rectangles. If the area of the shaded region is $7 u^2$, what is the area of the entire rectangle?



A) $10 u^2$ B) $14 u^2$ C) $16 u^2$

24) Thirty students went to a museum for a field trip. Fourteen students visited the dinosaur exhibit and nine students visited the space exhibit. Two students visited both the dinosaur and space exhibits. How many students visited neither the dinosaur exhibit, nor the space exhibit?

A) 5 B) 7 C) 9 D) 11

²⁵⁾ $16 + 32 \div (7 - \sqrt{9})^2 =$ A) 3 B) 8 C) 13 D) 18

26) Chen has four books on his bookshelf. The red book has 100 pages, the yellow book has 79 pages, the green book has 120 pages, and the blue book has 68 pages. The number of pages in the first book is not divisible by 5. The second book is not green or blue. The number of pages in the third book is a perfect square. What colour is the fourth book?

A) Blue B) Green C) Red D) Yellow

27) Oliver goes to the local farmer's market every 12 days and Olivia goes to the local farmer's market every 15 days. If both Oliver and Olivia go to the local farmer's market on the seventh day of the new year, when is the next day that they will both go to the local farmer's market on the same day?

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Δι	60	B) 6/	()	180		IX/
	00			100		10/
			- /			

Space for rough work

18

28) Dean is planning a vacation across Europe. He wants to visit England, France, Italy, and Spain once, but he does not want to visit England first. How many different ways can Dean travel across Europe?

A) 9 B) 12 C) 16 D)

29) Tom's age is between 15 and 25 and he is four times as old as Jerry. Three years from now, both Tom and Jerry's ages will be prime numbers. How old is Jerry now?

- A) 4 B) 7 C) 16 D) 19
- 30) How many rectangles of all sizes are in this diagram?



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

For more information, please visit: **spiritofmathcontest.com**

