

A FUN MATH COMPETITION FOR STUDENTS IN GRADES 1-12

Thursday, March 21, 2024

5:30-7:30 PM

at California State University, Fresno

Free practice sessions for Math Kangaroo are offered by Fresno State faculty and students on Saturdays 2/10/24, 2/24/24, and 3/9/24.

Learn more and register at http://www.fresnomathcircle.org/competitions.html.

Registration deadline: December 15 2023

Late registration deadline: December 31, 2023			
Sample problems			
<i>Grades 1-2:</i> Monika is 2 years old and Karl is 4. How old will Monika be when Karl is 11?			
B) 7	C) 8	D) 9	E) 10
<i>Grades 3-4:</i> Matthew and Clara live in a skyscraper. Clara lives 12 floors above Matthew. One day Matthew went to visit Clara, and he took the stairs up from his apartment to Clara's apartment. Half way up he was on the 8th floor. On what floor does Clara live?			
B) 14	C) 16	D) 20	E) 24
<i>Grades 5-6:</i> Adam divided a certain secret number by 7. Then, he added 7 to the result and multiplied the number he obtained in this way by 7. For the final result he got the number 777. What was Adam's secret number?			
B) 111	C) 722	D) 567	E) 728
<i>Grades 7-8:</i> The smallest two-digit number that is not the sum of three different one-digit numbers is			
B) 15	C) 23	D) 25	E) 28
Grades 9-10: Two of the altitudes of a triangle are 10 cm and 11 cm. Which of the following cannot			
		D) 10	E) 100
<i>Grades 11-12:</i> Two right cylinders A and B have the same volume. The radius of the base of B is			
10% larger than that of A . How much larger is the height of A than that of B ?			
B) 10%	C) 11%	D) 20%	E) 21%
See more sample problems at <u>http://www.mathkangaroo.org</u> .			
Questions? E-mail Dr. Maria Nogin at mnogin@csufresno.edu.			
	B) 7 A: Matthew and to visit Clara, the 8th floor. On B) 14 A: Adam divide number he obtained in the secret number? B) 111 B: The smalles B) 15 10: Two of the of the third altit B) 6 cm 1-12: Two right and that of A. How ample problem	B) 7 C) 8 -4: Matthew and Clara live in it to visit Clara, and he took the the 8th floor. On what floor do B) 14 C) 16 -6: Adam divided a certain see in number he obtained in this was secret number? B) 111 C) 722 -8: The smallest two-digit number be considered in the secret number? B) 15 C) 23 -10: Two of the altitudes of a of the third altitude? B) 6 cm C) 7 cm 1-12: Two right cylinders A and that of A. How much larger B) 10% C) 11% Tample problems at http://w	Sample problems at http://www.mathkange Sample problems at http://www.mathkange