1. Find $-20 - 1$	$9 - 18 - \dots + 22 + 23.$		
	Answer 1:	Answer 2:	Answer 3:
2. What is $\frac{2+4+}{1+3+}$	$\frac{6}{5} - \frac{1+3+5}{2+4+6}$?		
	Answer 1:	Answer 2:	Answer 3:
	udents at a particular school, 62 stu- club. How many students are in bo		74 students are in the basketball club, and 28 all club?
	Answer 1:	Answer 2:	Answer 3:
4. How many pa	ths are there from $(-4,-4)$ to $(3,3)$, i	f one can only move up or right in	the path?
	Answer 1:	Answer 2:	Answer 3:
5. Find 99999^2 .			
	Answer 1:	Answer 2:	Answer 3:
	_		of chocolate at a vertex not on the face he is ne chocolate, given he must travel on the faces
	Answer 1:	Answer 2:	Answer 3:
7. What is the s	mallest positive integer x such that	$x^2 + 8x + 12$ and $x^2 + 14x + 49$ as	re not relatively prime?
	Answer 1:	Answer 2:	Answer 3:
well in the ro	und is $\frac{2}{3}$. The probability of her par	etner doing well in the round is $\frac{3}{5}$.	the tournament, the probability of her doing The probability of them winning the round is g well. What is the probability that they win
	Answer 1:	Answer 2:	Answer 3:
9. A square with	n side length 6 is rotated 360 degree	s about its center. Determine the	area swept out by the full rotation.
	Answer 1:	Answer 2:	Answer 3:
10. Let y be the	answer to #16. Find $2y - 1$.		
	Answer 1:	Answer 2:	Answer 3:

11. Find the remainder when $(2^0 -$	$+2^1+2^2+\cdots+2^{99}$) is div	ided by 9.	
	Answer 1:	Answer 2:	Answer 3:
12. Circle ω has radius 6. Rays A	B and AC are tangent to ω	, with $\angle BAC = 60^{\circ}$. Find the α	distance from C to AB .
	Answer 1:	Answer 2:	Answer 3:
13. Find	_\	$\frac{12}{1 + \sqrt{\frac{12}{1 + \sqrt{\frac{12}{1 + \dots}}}}}$	
	'	¥ ¥ =1	Answer 3:
			problem-writing committee, but Lili and any different possibilities for a committee
	Answer 1:	Answer 2:	Answer 3:
			here are nine indistinguishable proctors, rs can be distributed between the three
	Answer 1:	Answer 2:	Answer 3:
16. Let x be the answer to #10. If	Find x^3 .		
	Answer 1:	Answer 2:	Answer 3:
-	o remove the last coin wins. ng strategy?	If Jsun moves first, for how ma	moving between 1 and 3 coins (inclusive) any positive integers N less than or equal M . Answer 3:
18. If a, b, c, and d are distinct in			
16. If a, b, c, and d are distinct in			
19. In regular hexagon ABCDE1 intersection of these two trians	with side length 1, equiligles.	ateral triangles ACE and BDR	Answer 3: F are drawn. Compute the area of the Answer 3:
20. The roots of $f(x) = x^3 - 12x$			4 0
	Answer 1:	Answer 2:	Answer 3:

21.	to points A', B' , and C' respective	, , ,		B, and C are renected across line $x = 9$ and $A'B'C'$.
		Answer 1:	Answer 2:	Answer 3:
22.	Find the remainder when $(1^2 + 1^2)$ 2015.	$*2 + 2^{2}) + (2^{2} + 2 * 3 +$	$(3^2) + (3^2 + 3 * 4 + 4^2) + \dots + (201)$	$4^2 + 2014 * 2015 + 2015^2$) is divided by
		Answer 1:	Answer 2:	Answer 3:
23.	. Trapezoid $ABCD$ has right angle the area of triangle DEC is 81, a			E. The area of triangle ABE is 25 and
		Answer 1:	Answer 2:	Answer 3:
24.		or makes one move? (A	knight is a piece that can move t	nere to rearrange the knights such that we squares horizontally and one square
		Answer 1:	Answer 2:	Answer 3:
25.		are a face with the verte urface of the prism?	ex he is on). What is the square o	t to the vertex that is directly opposite f the length of the shortest path he can Answer 3:
26.	. Congratulations on reaching the	last 5 problems! What w	vas the answer to #1?	
		Answer 1:	Answer 2:	Answer 3:
27.	. Find all integer solutions (x, y) the	hat satisfy the following	equation: $(x - y - 2)^2 + (2x + y)^2$	$p^2 = 1.$
		Answer 1:	Answer 2:	Answer 3:
28.	. A fair, six-sided die is rolled twice	e. What is the expected	value of the greater of the two re	olls?
		Answer 1:	Answer 2:	Answer 3:
29.	Define $f(n) = n + (largest prime for all n)$	factor of n) ² . Find all va	lues of n such that $f(f(n)) = 201$	5.
		Answer 1:	Answer 2:	Answer 3:
30.	Farmer John has red, blue, and grolors?	reen paint. How many w	ays can he paint his six-sided barn	n such that adjacent sides have different
		Answer 1:	Answer 2:	Answer 3: