

2017 Milton Mini-Mathletes Ciphering Practice Problem (No points)

Problem 1 What time is it 150 minutes be	efore 4:00 PM?	11 points	chool:
		5 points	
		0 points	
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Problem 2 Each of my shoes weighs the shoes weigh 10 kg together, the of 12 of my shoes is?		Grade: 11 points	School:
of 12 of my shoes is		5 points	
		0 points	
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Problem 3 On Sunday, there is one rabbit in a cage. If the number of rabbits in the cage doubles each day, on what day of the week will the number of rabbits exceed 20?	Name:School:
2017 Milton Mini- Mathletes Ciphering	0 points
Problem 4 What is the sum of the distinct prime factors of 90?	Name:School:
	5 points
2017 Milton Mini- Mathletes Ciphering	0 points

Problem 5 A particular square has side length 12. Another square has area 12. What is the difference between the areas of these two squares?	School:Grade:
	5 points
2017 Milton Mini- Mathletes Ciphering	0 points
Problem 6 How many triangles of any size are found in the figure below?	School:Grade:11 points
	5 points

Problem 7 Square ABCD circumscribes a circle. Points P, Q, R, and S are midpoints of their respective sides. Point X is the center of the circle, and the radius of this circle is 5. What is the total area of the shaded regions? Express your answer in terms of π .

Problem 8

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What is the average of the first five non-negative powers of 10? Round your answer to the nearest tenth.

five non-negative ver to the nearest	11 points	e:
	5 points	
	0 points	

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Problem 9 The set $\{9, 5, 4, 10, x\}$ has five numbers. If the mean (average) of the set equals x , what is the value of x ?	hool:ade: 11 points
	5 points
	0 points
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Problem 10 How many <i>ordered</i> triples of positive integers are there in the form of (a, b, c) that sum to 6?	School:Grade:11 points
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