#1 Probability & Statistics - Hustle
MA© National Convention 2015

Catherine is rolling a fair die. What is the probability that she does not roll a 6 before her fourth roll?

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Answer		

Round 1 2 3 4 5

#1 Probability & Statistics – Hustle MA⊕ National Convention 2015

Catherine is rolling a fair die. What is the probability that she does not roll a 6 before her fourth roll?

Answer : ______

Round 1 2 3 4 5

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Answer : ______

Answer : _____

Round 1 2 3 4 5

#2 Probability & Statistics – Hustle MA⊕ National Convention 2015	#2 Probability & Statistics – Hustle MA⊕ National Convention 2015
Sebby is also rolling a fair die. What is the probability that he rolls a 6 on the fourth roll?	Sebby is also rolling a fair die. What is the probability that he rolls a 6 on the fourth roll?
Answer: Round 1 2 3 4 5 #2 Probability & Statistics – Hustle MA® National Convention 2015	Answer: Round 1 2 3 4 5 #2 Probability & Statistics – Hustle MA® National Convention 2015
Sebby is also rolling a fair die. What is the probability that he rolls a 6 on the fourth roll?	Sebby is also rolling a fair die. What is the probability that he rolls a 6 on the fourth roll?
probability that he rolls a o off the fourth foll?	probability that he rolls a 0 off the fourth foll?

Answer : ______

Round 1 2 3 4 5

Answer:

#3 Probability & Statistics – Hustle MA® National Convention 2015

There are 25 students in Mr. Van Treese's Statistics class. 5 of them are in Math Club, 4 of whom received an A on the last test. 6 of the students not in Math club received an A as well. Natalie received an A on the test; what is the probability that she is in Math Club?

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_	
Ancurar	
Answer	

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer	
--------	--

Round 1 2 3 4 5

Answer : ____

#4 Probability & Statistics – Hustle MA⊕ National Convention 2015

Katie and Zach are playing darts on a dartboard of radius 3. The bull's-eye is concentric with the dartboard and has radius 1. Assuming that both Katie and Zach hit the dartboard and every point on the dartboard has an equal probability of being hit, what is the probability that they both hit a bull's-eye?

#4	Probability	& Statistics	- Hustle
MA	Θ National	Convention	2015

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_		
Answer		
AII3WCI	•	

Round 1 2 3 4 5

Round 1 2 3 4 5

Answer : _____

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Answer : ______

Answer : _____

Round 1 2 3 4 5

#5 Probability & Statistics – Hustle MA⊕ National Convention 2015

Rob and Zack are teaching algebra. On a given day, there is a 10% probability that Avram will know what the absolute value of 3+4i is. Given that Rob and Zack continue to teach Avram until he knows the answer, what is the probability that they teach Avram for exactly three days?

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Answer	
WII2MCI	

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

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Answer : ______

Answer : _____

Round 1 2 3 4 5

#6 Probability & Statistics – Hustle MA® National Convention 2015

What is the z-score of an observation of 220 when the mean of the normal distribution from which this observation comes is 130 and the distribution's standard deviation is 30?

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_	
Ancurar	
Answer	

Round 1 2 3 4 5

#6 Probability & Statistics – Hustle MA⊕ National Convention 2015

What is the z-score of an observation of 220 when the mean of the normal distribution from which this observation comes is 130 and the distribution's standard deviation is 30?

Answer : _____

Round 1 2 3 4 5

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What is the z-score of an observation of 220 when the mean of the normal distribution from which this observation comes is 130 and the distribution's standard deviation is 30?

Answer : ______

Answer : ______

Round 1 2 3 4 5

#7 Probability & Statistics – Hustle MA⊕ National Convention 2015

$$P(x) = \begin{cases} x, & \text{if } 0 \le x \le 1\\ 1, & \text{if } 1 < x \le a\\ 0, & \text{otherwise} \end{cases}$$

is a probability distribution. What is the value of a?

#7 Probability & Statistics – Hustle MA⊕ National Convention 2015

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Answer : ______

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Answer : _____

Round 1 2 3 4 5

#8 Probability & Statistics – Hustle MA® National Convention 2015

X is a random variable with mean 50 and standard deviation 30. Y is a random variable with mean 100 and standard deviation 40. What is the mean of X+Y?

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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#9 Probability & Statistics - Hustl
MA@ National Convention 2015

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Answer:		

Round 1 2 3 4 5

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Answer : ______

Round 1 2 3 4 5

Answer : ____

#10 Probability & Statistics – Hustle MA⊕ National Convention 2015

The probability distribution table for a game appears below. What is the value of y?

X	-5	0	1	2	4	6
P(X)	.6	y	.1	.05	.03	.02

#10 Probability & Statistics - Hustle MA⊕ National Convention 2015

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X	-5	0	1	2	4	6
P(X)	.6	у	.1	.05	.03	.02

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Answer :		
Allawei .		

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Answer : _____

Round 1 2 3 4 5

#11 Probability & Statistics – Hustle MA® National Convention 2015

The probability distribution table for a game appears below. What is the numerical expected value of this game?

X	-5	0	1	2	4	6
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Ancwer:		

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer : _____

Answer : _____

Round 1 2 3 4 5

#12 Probability & Statistics – Hustle MA® National Convention 2015

You are dealt three cards from a standard 52 card deck. What is the probability that all three cards are of the same suit? Write your answer as a simplified fraction.

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Answer:		

Round 1 2 3 4 5

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Answer : ______

Round 1 2 3 4 5

#12 Probability & Statistics – Hustle MA⊕ National Convention 2015

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Answer: ______ Answer: _____

Round 1 2 3 4 5

#13 Probability & Statistics - Hustle
MA® National Convention 2015
What is the mean of the following set?
{1, 1, 3, 9, 10, 13, 13, 14}

 $\{1, 1, 3, 9, 10, 13, 13, 14\}$

#13 Probability & Statistics – Hustle MA⊕ National Convention 2015

{1, 1, 3, 9, 10, 13, 13, 14}

What is the mean of the following set? {1, 1, 3, 9, 10, 13, 13, 14}

Answer :	Answer :
Round 1 2 3 4 5	Round 1 2 3 4 5
#13 Probability & Statistics – Hustle MA® National Convention 2015	#13 Probability & Statistics - Hustle MA⊕ National Convention 2015
What is the mean of the following set?	What is the mean of the following set?

Answer: _____ Answer: _____

Round 1 2 3 4 5

#14 Probability & Statistics – Hustle MA® National Convention 2015

	Circle	Square	Total
Red	32	68	100
Blue	48	12	60
Total	80	80	160

In a collection of red and blue circles and squares, with quantities of each given above, what is the probability that an object is red given that it is a circle?

#14 Probability & Statistics – Hustle MA® National Convention 2015

	Circle	Square	Total
Red	32	68	100
Blue	48	12	60
Total	80	80	160

In a collection of red and blue circles and squares, with quantities of each given above, what is the probability that an object is red given that it is a circle?

_						
Answer	•					

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer	•	
Aliswei	•	

Answer : _____

#15 Probability & Statistics – Hustle MA® National Convention 2015

	Circle	Square	Total
Red	32	68	100
Blue	48	12	60
Total	80	80	160

In a collection of red and blue circles and squares, with quantities of each given above, what is the probability that an object is a square given that it is blue?

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

Answer : _____

#16 Probability & Statistics – Hustle MA® National Convention 2015	#16 Probability & Statistics – Hustle MA⊖ National Convention 2015	
How many distinct permutations are there of the letters in the word STATS?	How many distinct permutations are there of the letters in the word STATS?	
Answer: Round 1 2 3 4 5	Answer: Round 1 2 3 4 5	
#16 Probability & Statistics - Hustle	#16 Probability & Statistics - Hustle	

MAO National Convention 2015

How many distinct permutations are there of the letters in the word STATS?

MA© National Convention 2015

How many distinct permutations are there of the letters in the word STATS?

Answer :	Answer :
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Round 1 2 3 4 5

#17 Probability & Statistics – Hustle MA⊕ National Convention 2015

Julia picks a random, positive integer n. What is the probability that $\left(\operatorname{cis} \frac{\pi}{4}\right)^n$ is a real number?

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Round 1 2 3 4 5

Answer : ______

Round 1 2 3 4 5

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Answer : ______

Answer : _____

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : _____

Answer : _____

Round 1 2 3 4 5

#19 Probability & Statistics – Hustle MA⊕ National Convention 2015

Nathan picks two marbles (without replacement) out of a bag with 10 blue marbles and 15 white marbles. What is the probability that at least one of the marbles is white?

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A	_	
Answer	•	

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : _____

Answer : _____

Round 1 2 3 4 5

#20 Probability & Statistics – Hustle MA⊕ National Convention 2015

Before his final test of the year, Evan has a 90% average. On his last test, he receives a 70%, and his final average is 85%. How many tests did Evan take throughout the year, given that each test was weighted equally and his average was only determined by his tests?

#20 Probability & Statistics – Hustle MA⊕ National Convention 2015

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_		
Answer:		

Round 1 2 3 4 5

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Answer : _____

Round 1 2 3 4 5

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Answer : _____ Answer : ____

Round 1 2 3 4 5

#21 Probability & Statistics – Hustle MA⊕ National Convention 2015

Find the mean of the mean, median, mode, and range of the following data set:

{6,8,9,10,10,10,10,11,16}

#21 Probability & Statistics – Hustle MA⊕ National Convention 2015

Find the mean of the mean, median, mode, and range of the following data set:

{6,8,9,10,10,10,10,11,16}

A	_	
Answer	•	

Round 1 2 3 4 5

#21 Probability & Statistics – Hustle MA⊕ National Convention 2015

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{6,8,9,10,10,10,10,11,16}

Answer : _____

Round 1 2 3 4 5

#21 Probability & Statistics – Hustle MA⊕ National Convention 2015

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{6,8,9,10,10,10,10,11,16}

Answer : ______

Answer : _____

Round 1 2 3 4 5

#22 Probability & Statistics - Hustl	le
MA® National Convention 2015	

Find the interquartile range of the following set of data:

{8,10,22,14,29,5,30,20,17,13}

#22 Probability & Statistics – Hustle MA⊕ National Convention 2015

Find the interquartile range of the following set of data:

{8,10,22,14,29,5,30,20,17,13}

A	_	
Answer	•	

Round 1 2 3 4 5

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{8,10,22,14,29,5,30,20,17,13}

Answer : _____

Round 1 2 3 4 5

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 ${8,10,22,14,29,5,30,20,17,13}$

Answer : ______

Round 1 2 3 4 5

Answer : _____

#23	Probability	& Statistic	s – Hustle
MAG) National Co	onvention :	2015

A and B are events such that $P(A \cap B) = 0.2$ and P(B) = 0.4. What is P(A|B)?

#23 Probability & Statistics – Hustle MA⊕ National Convention 2015

A and B are events such that $P(A \cap B) = 0.2$ and P(B) = 0.4. What is P(A|B)?

_		
Inswer		

Round 1 2 3 4 5

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Round 1 2 3 4 5

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Answer : ______

Answer : _____

Round 1 2 3 4 5

#24 Probability & Statistics – Hustle MA⊕ National Convention 2015

Alexis is running for president. 80% of the 9th and 10th graders plan to vote for her, but 11th and 12th graders make up 60% of the student body. What percentage of 11th and 12th graders need to vote for her to get 50% of the vote (assuming that all students vote and the student body consists only of 9th, 10th, 11th, and 12th graders)?

#24 Probability & Statistics - Hustle
MAO National Convention 2015

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_	
Answer	
AII3WCI	

Round 1 2 3 4 5

Answer : _____

Round 1 2 3 4 5

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Answer:	Answer:

Round 1 2 3 4 5

#25 Probability & Statistics – Hustle MA© National Convention 2015 Find the sum of the numbers next to the non- resistant measures:		#25 Probability & Statistics - Hustle MA⊕ National Convention 2015			
		Find the sum of the numbers next to the non-resistant measures:			
(0) Mean	(-3) Mode	(0) Mean	(-3) Mode		
(3) Median	(-5) Range	(3) Median	(-5) Range		
(5) Standard Deviation		(5) Standard Deviation			
Answer :		Answer :			
Round 1 2 3 4 5		Round 1 2 3 4 5			
#25 Probability & Statistics – Hustle MA⊕ National Convention 2015		#25 Probability & Statistics - Hustle MA⊕ National Convention 2015			
Find the sum of the numbers next to the non-resistant measures:		Find the sum of the numbers next to the non-resistant measures:			
(0) Mean	(-3) Mode	(0) Mean	(-3) Mode		
(3) Median	(-5) Range	(3) Median	(-5) Range		
(5) Standard Deviation		(5) Standard Deviation			

Round 1 2 3 4 5

Answer : ______

Answer : _____