Name:		Date:						
1.	Which of the following sets of events are considered independent events?			What is the number of different arrangements of the word 'SECONDARY' if the first letter must be D and the last letter must be C?				
	A.	Drawing a ten from a deck of cards, not replacing the card, and then drawing another card		A. 308,460C. 40,320		B. 8 D. 5	34,605 5040	
	В.	Selecting a red marble from a bag, and then tossing a coin		,				
	C.	Earning all A's, and getting into college						
	D.	Pulling a brown sock out of a drawer without replacing it, then pulling another brown sock out.						
			5.	The student c person selected the vice press how many wa chosen?	ouncil has ed is the pr ident and th ays can the	15 men resident he third officers	hbers. If the the second is treasurer, of the board	first is in l be
				A. 15!	B. 45	C. 4	45 D. 2	2,730
2.	Evaluate the factorial.							
		5!						
	A.	14 B. 15 C. 80 D. 120						
			6.	6. The school cafeteria offers a variety of foods as shown in the table.				
				meat	side dish	drink	dessert	
				burritos	beans	juice	ice cream	
				hamburgers	fries	milk	jello	
				chicken	rice	soda	pie	
3.	Jamie bought five house-numbers at the local hardware store. The numbers are: 1, 2, 3, 4, 5. How many different three-digit house-numbers can she form that are greater than 300?			fish		tea		
				pizza				
				How many d consisting of 1 dessert?	ifferent me 1 meat, 1	als can side dis	be ordered sh, 1 drink, a	ind
	A.	24 B. 12 C. 10 D. 36		A. 180	B. 120	C. 2	20 D. 1	2

7.	a group of 5 boys and 4 girls what is the obability of selecting a group of 3 people, if at group must have 2 boys and 1 girl? (Answer 3 decimal places.)			
	A. 0.111 B. 0.333 C. 0.100 D. 0.253			
8.	A box contains 10 red balls, 6 blue balls and 4 green balls. 9 balls are drawn all at once. What is the probability that 4 blue balls, 3 red balls, and 2 green balls are drawn? (Answer to 3 decimal places.)			
	A. 0.279 B. 0.058 C. 0.117 D. 0.234			
9.	If 8 coins are all tossed at once, what is the probability that 5 heads and 3 tails turn up? (Answer to 3 decimal places.)			
	A. 0.219 B. 0.375 C. 0.324 D. 0.175			
10.	Miguel has 3 pennies, 6 nickels and 8 dimes in his pocket. If 4 coins are randomly selected, what is the probability of drawing out 2 dimes and 2 nickels in any order? (Answer to 2 decimal places.)			

A. 0.18 B. 0.21 C. 0.36 D. 0.30

11. How many different outfits can Joan make from 6 pairs of pants, 3 shirts, and 2 pairs of socks? Explain.

12. How many different ways can you play your five favorite songs?

13. A group of 12 people need to form a line. The line will consist of exactly 9 of the people. Person *X* and Person *Y* have to be either third or fourth in line. How many different orders are possible?

A.	79,833,600	В.	1,209,600
C.	604,800	D.	362,880

- 14. A manufacturing plant produces a special kind of lightbulb.
 - Each lightbulb produced has a 0.040 probability of being defective.
 - Five lightbulbs are chosen at random from the production line.

To the nearest thousandth, what is the probability that exactly two of the five bulbs will be defective?

A. 0.014 B. 0.016 C. 0.018 D. 0.020

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AFM Probability Unit Assessment 3/11/2020

1. Answer: Objective: Points:	B S.CP.5 1	12. Answer: Objective: Points:	120 ways S.CP.9 1
2. Answer: Objective: Points:	D S.CP.9 1	13. Answer: Objective: Points:	B 1.03.b 1
3. Answer: Objective: Points:	D S.CP.9 1	14. Answer: Objective: Points:	A 1.03.f 1
4. Answer: Objective: Points:	D S.CP.9 1		
5. Answer: Objective: Points:	D S.CP.9 1		
6. Answer: Objective: Points:	A S.CP.9 1		
7. Answer: Objective: Points:	B S.CP.9 1		
8. Answer: Objective: Points:	A S.CP.9 1		
9. Answer: Objective: Points:	A S.CP.9 1		
10. Answer: Objective: Points:	A S.CP.9 1		
11. Answer: Objective: Points:	36 outfits S.CP.9 1		
	I		