Algebra 2 Bellwork Wednesday, May 27, 2015

- 1. The probability that on vacation I go to Hawaii is 24%. The probability that on vacation I get sunburned is 75%. Find the following probability as a percent rounded to the nearest tenth.

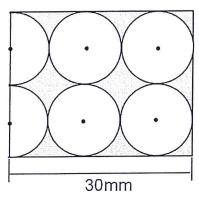
 P(go to Hawaii or get sunburned)=
- 2. You are going to take a cooler with drinks to the beach. In the fridge there are 4 different kinds of cola, 6 different juices, and 8 different flavors of Gatorade.
- a) Find the number of ways you could take one of each kind of drink.
- b) Find the number of ways you could take 2 different colas or 3 different juices.
- c) Find the number of ways you could take 4 different juices and 3 different flavors of Gatorade.
- 3. Use the results of the survey about what people are afraid of to find each probability as fraction:

	Snakes	Spiders	Mice	Dogs	Total				
Boys 23		14	5	2	44				
Girls	35	20	8	3	66				
Total	58	34	13	5	110				

- a) P(Snakes | Boys)=
- b) P(Mice and Girls)=

c) P(Boys or Spiders)=

- d) P(Girls | Dogs)=
- 4. Find the probability that a random point is in the shaded region. Give your answer as a percent to the nearest hundredth.



- 5. The office is adding 8 more desks for new workers. Each desk is going to get a phone with its own phone number. How many ways can you assign a separate phone number to each desk?
- 6. A company needs to send 4 of it's workers to 4 different manufacturing plants in different states. The boss has 7 workers to choose from. How many ways can the boss assign a worker to go to each of these manufacturing plants?

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P(go to Hawaii or get sunburned)=

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| Not mutually | Fix CLUSIVE

P(go to Hawaii or get sunburned)= 24% + 75% - (24%)(75%) = 81.0%

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- a) Find the number of ways you could take one of each kind of drink.

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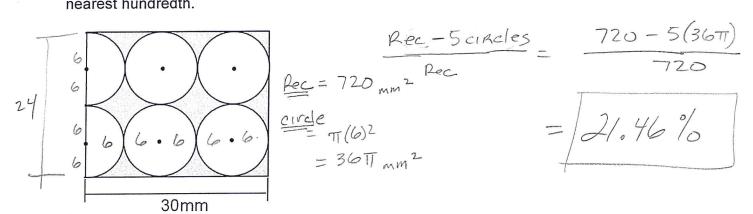
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3. Use the results of the survey about what people are afraid of to find each probability as fraction:

		,				1
	Snakes	Spiders	Mice	Dogs	Total	
Boys	23	14	5	2	44	a) P(Snakes Boys)= $\frac{23}{100}$ b) P(Mice and Girls)=
Girls	35	20	8	3	66	744
Total	58	34	13	5	110	
			_			

c) P(Boys or Spiders)=
$$\frac{64}{110}$$
 d) P(Girls | Dogs)= $\frac{3}{5}$

4. Find the probability that a random point is in the shaded region. Give your answer as a percent to the nearest hundredth.



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