Bellwork Wednesday, May 14, 2014

1. You want to frame a picture to hang at home. At the frame shop there are 12 different frame styles to choose from, 15 different background colors to choose from, and 5 different frame sizes to choose from. How many different pictures can you create?

- 3. For dinner your parents bring home a bag full of food. In the bag there are 2 salami sandwiches, 4 Balogna sandwiches and 3 turkey sandwiches. Find each probability as a fraction.
- a) You reach in and randomly grabs a sandwich and eat it and then your brother randomly grabs a sandwich

P(turkey sandwich and turkey sandwich)=

b) You randomly grab a sandwich, look at and decide that you don't want that kind, then grab another sandwich. P(Salami and Balogna) =

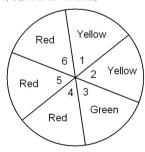
2. Ten students are going to receive an award. Your job is to give the principal a list of these ten students to be read aloud at an assembly. How many different lists can you give the principal to read?

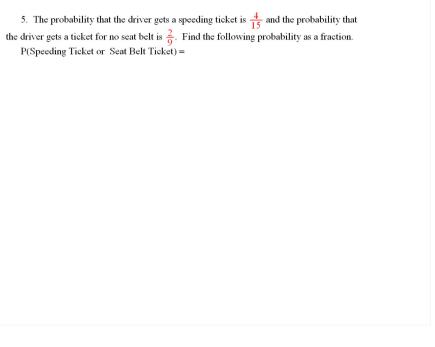
- 4. You spin the spinner shown once. Find each probability as a fraction.
- a) P(Prime and Red)

b) P(Yellow and Odd)

c) P(Factor of 6 or Green)

d) P(Red or Even)





- 7. You are painting your bedroom. You've narrowed it down to 8 choices for wall color, 4 choices for color of the window trim, and 2 choices for ceiling color. How many different color schemes for your room are there?

- 6. There are 8 volumes to a set of Encyclopedias.
- a) How many ways can you arrange the 8 volumes on the shelf?
- b) If there is only room for 6 of the volumes how many ways can 6 of the volumes be arranged on the shelf?

8. Use the results of the survey 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)=

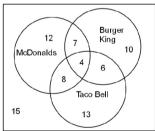
- d) P(Girls | Dogs)=
- e) P(Spiders or Snakes)=

choose from, and 3 different sizes. Find the number of 2-scoop Sundaes with 3 toppings that are possible.	
11. There are 12 people that work in an office.	
a) If you want to buy 4 new chairs and give them to the workers how many different ways could this be done?	
b) You are completing a technology upgrade and are giving everybody their own phone number. How many different ways could you assign phone numbers?	

9. There are 9 different ice cream flavors to choose from, 4 different toppings to

10. A license plate contains 3 numbers and 3 letters. If numbers can't repeat but letters can, find the number of license plates that are possible.

12. Use the following Venn Diagram to find each probability as a fraction.



- a) P(McD and BK)=
- b) P(TB or McD but NOT BK)=

- c) P(Not McD)=
- d) P(BK but not TB)=