Chapter 11 All Mixed Up!

Just set up, don't calculate!

1. What is the probability of rolling a multiple of 4 on a die?

2. How many ways can you line up 5 sixth graders?

3. What is the probability of flipping a tails on a coin, then choosing the ace of spades from a standard deck of cards?

4. How many ways can you choose department chair and co-chair from a group of 10 people?

5. What is the probability of selecting a number divisible by 2 or 3 when choosing from the numbers 1-36?

6. How many ways can you arrange the letters of *standards*?

7. How many ways can you choose two different vegetables from a tray containing 7 different vegetables?

8. What is the probability of selecting 3 yellow and 2 green marbles from 5 red, 5 yellow, and 3 green marbles?

9. How many 6 digit passwords can be created if you cannot use even numbers or vowels and no letters can be repeated? The password must be created with the first 3 digits being letters, and the last 3 digits numbers.

10. The French Club has 24 members and Key Club has 43 members. There are 14 students in both clubs. What is the probability of randomly selecting a student in French Club given the student is in key club?

11. How many ways can you set 5 people *around* a dining table?

12 Two dice are rolled.

What is the probability:

+	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

a) of rolling a sum of 6?

b) a sum greater than 7 or a multiple of 5?

c) a sum less than 4 or a multiple of 5?

13. A spinner numbered 1-15 is spun. Let event A=odd, event B=greater than 11,and event C=multiple of 3. Find:

a) P(C)=

b) P(A or B)=

c) P(A l C)=

d) P(B and C)

e) P(C l B)