- 1. How many 6 digit passwords can be created with numbers only that cannot repeat?
- 2. In a club of 15, how many ways can 3 people be chosen to represent their club?
- 3. When rolling two dice, what is the probability of rolling a sum that is a multiple of 3 or a sum greater than 8?
- 4. How many ways can you arrange the letters of MONTANA?
- 5. What is the probability of rolling a multiple of 3 on a die and then flipping a tails?
- 6. There are 15 members on the ski team and 17 members in Key Club. There are 5 members in both clubs. What is the probability that you will random select a member that is in both clubs given that the member is on the ski team?
- 7. How many integers from 1-720 are divisible by 2 or 3? What is the probability that you will choose a number that is NOT divisible by 2 or 3?
- 8. There are 6 Baby Ruth and 8 Snickers bars in a dish. What is the probability that you will choose 2 Baby Ruth and 3 Snickers if you grab 5 bars at once?

## WORK:

**Answers:** 

- 1.151,200
- 2. 455
- 3.  $\frac{17}{36}$
- 4. 1260

5. 
$$\frac{1}{6}$$
 6.  $10^{(5)}$  6.  $1/3$ 

7.  $480; \frac{1}{3}$ 

8.  $\frac{60}{143}$ 

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