Semester 2 Extra Practice #4

- 1. In how many ways can five kids sit on a merry go round with 5 horses?
- 2. How many permutations of the letters of ALFALFA are there?
- 3. In a single grab, what is the probability of selecting 4 red and 3 green from 7 red and 8 green marbles?
- 4. Alex can read between 4:00 and 4:30 every day. What is the probability that he reads between 4:03 and 4:09?
- 5. In how many ways can you choose 3 rocks from 5 rocks?
- 6. There are 7 kindergartners. In how many ways can they be lined up for recess?
- 7. In a box containing 3 red, 5 yellow and 6 purple, what is the probability of selecting a purple marble?
- 8. Six runners are in a race. In how many ways can 4th 5th and 6th place be awarded?
- Mom bought Sally 5 different pair of pants and 4 different shirts. How many different outfits are possible.
- 10. There are 16 members of Glee Club. How many different ways can Treasurer, Recorder, and Manager be chosen?
- 11. After rolling two numbered cubes, what is the probability of rolling:
 - a) a sum less than 5 or a multiple of 4?
 - b) A sum greater than 8 or a sum of 5?

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- 1. (5-1)! = 24
- $2. \quad \frac{7!}{3!2!2!} = 210$
- $3. \qquad \frac{1960}{6435} = \frac{392}{1287}$
- 4. $\frac{6}{30} = \frac{1}{5}$
- 5. 10
- 6. 7! = 5040
- 7. $\frac{6}{14} = \frac{3}{7}$
- 8. 120
- 9. $5 \cdot 4 = 20$
- 10. 3360
- 11. $\frac{6}{36} + \frac{9}{36} \frac{3}{36} = \frac{12}{36} = \frac{1}{3}$
- 12. $\frac{10}{36} + \frac{4}{36} = \frac{14}{36} = \frac{7}{18}$

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