Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mixed Review (wkst 11.11)**

**The table below shows data about 108 pizzas sold in a pizzeria. Each pizza was sold with one topping.**

 

**Find each of the following probabilities if a one topping pizza is picked at random.**

1. Find P(Square) 48/108
2. Find P(Mushroom) 18/108
3. Find P(Round ∪ Mushroom) 68/108 (Remember U means “or”)
4. Find P(Square ∩ Chicken) 6/108 (remember  means “and”)
5. Find P(Round ∩ Onion)’ 93/108 (remember ‘ means “not”)

You have a cooler full of drinks, sandwiches and chips. There are 3 different kinds of drinks, 4 different types of sandwiches, and 5 different types of chips.

6. How many possible combinations are there for picking one of each item? 60



1. Find P(Biology) 22/35
2. Find P(Chemistry ∩ Biology) 9/45
3. Find P(Chemistry ∪ Biology) 30/45
4. Find P(Chemistry)’ 28/35

**A person rolls two dice, one after the other. Find the probability of the following events.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| + | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |

1. P(even sum) **or** P(less than 4) 20/36
2. P(even sum) **or** P(sum of 11) 20/36
3. P(doubles) or P(odd sum) 24/36

**The following table shows the concession stand sales at a Friday night football game.**

1. If a random person is selected, what is the probability that they ordered a hot dog? 158/400



1. If a random person is selected, what is the probability that they got pizza or soda? 262/400