Station Activity Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Geometry Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_

1. What is the probability of rolling a 3 on a 6-sided number cube?
2. You have tiles numbered 1 – 9 in a bag. What is the probability of drawing the number 2, putting it aside, and then drawing the number 5?



1. A spinner is divided into 8 equal sections as shown.

What is the probability that the spinner will land on a section that is NOT an even number?

1. You have a bag of 17 marbles. Four are blue, 6 are green, 2 are red, and the others are yellow. What is the probability of drawing a blue marble, replacing it, and then drawing a yellow marble?
2. You have a bag of 17 marbles. Four are blue, 6 are green, 2 are red, and the others are yellow. What is the probability of drawing a blue marble?

|  |  |
| --- | --- |
|  | Seat Position in Bus |
|  | Front | Middle  | Back | Total |
| Nausea | 58 | 166 | 193 | 417 |
| No Nausea | 870 | 1163 | 806 | 2839 |
| Total | 928 | 1329 | 999 | 3256 |

1. What is the probability that a student sat in the middle seat?
2. What is the probability that the student is nauseous given that the student sat in the middle seat?
3. What is the probability that the student sat in the front given that the student was not nauseous?
4. The probability of being female and having a master’s degree is .1193. The probability of being female is .526. What is the probability of earning a master’s degree given that the person is female?
5. A math teacher gave her class two tests. 25% of the class passed both tests and 42% of the class passed the first test. What percent of those who passed the first test also passed the second test?

11. A computer code uses 4 randomly selected letters of the alphabet. If no letters are repeated, how many possible codes are there?

12. Twelve students are competing in the finals of a spelling bee. The top 3 finishers are awarded a gold, silver, and bronze medal. In how many ways can the medals be won?

13. A committee of 4 students is to be formed from a homeroom of 25 students. How many different committees are possible?

14. There are 15 different seminars at a teacher’s convention. Mrs. Alvarez will choose 3 of the seminars to attend today. How many possible outcomes are there if the order of the seminars is important?

15. Fran has 4 pennies, 3 nickels, 5 dimes, and 2 quarters in her pocket. In how many ways can she pull 3 coins out of her pocket if the order of the coins is not important?

Find the probability that a randomly chosen point in the figure lies in the shaded region.



 16. 17.

4

 18.

The figure to the right shows a circle with a sector that intercepts an arc of 60°.

1. Find the probability that a randomly chosen point on the circle lies on the arc.