Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

|  |
| --- |
| **CC7\_Chapter 10 Probabilities Practice Test** |

|  |
| --- |
| **Multiple Choice***Identify the choice that best completes the statement or answers the question.*  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  1.  | There are 12 sixth graders, 14 seventh graders, and 7 eighth graders in a gym class. The gym teacher randomly selects one student to collect balls. In how many ways can choosing *not* a seventh grader occur?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 33 ways | c. | 19 ways |
| b. | 21 ways | d. | 14 ways |

  |
|  |  |  **Use the spinner to determine the probability of the event.nar002-1.jpg**  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  2.  | *Not* spinning a 4

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc002-1.jpg | c. | mc002-3.jpg |
| b. | mc002-2.jpg | d. | mc002-4.jpg |

  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  3.  | Spinning a number less than 10

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc003-1.jpg | c. | 1 |
| b. | mc003-2.jpg | d. | mc003-3.jpg |

  |
|  |  |  **You roll a number cube. Determine the theoretical probability of the event.**  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  4.  | Rolling a 3

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc004-1.jpg | c. | mc004-3.jpg |
| b. | mc004-2.jpg | d. | mc004-4.jpg |

  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  5.  | Rolling a multiple of  2

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc005-1.jpg | c. | mc005-3.jpg |
| b. | mc005-2.jpg | d. | 1 |

  |
|  |  |  **The bar graph shows the results of spinning the spinner 40 times. Find the experimental probability of the event.**  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  6.  | Spinning a 4    mc006-1.jpg     mc006-2.jpg

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc006-3.jpg | c. | mc006-5.jpg |
| b. | mc006-4.jpg | d. | mc006-6.jpg |

  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  7.  | Spinning a number greater than 1    mc007-1.jpg     mc007-2.jpg

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc007-3.jpg | c. | mc007-5.jpg |
| b. | mc007-4.jpg | d. | mc007-6.jpg |

  |
|  |  |  **Use the Fundamental Counting Principle to find the total number of possible outcomes.**  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  8.  |

|  |
| --- |
| **MP3 Player** |
| **Memory** | 1 GB, 2 GB, 4 GB , 8 GB, 16 GB, 32 GB |
| **Color** | Purple, Black, White  |
|  |  |
| a. | 18 | c. | 19 |
| b. | 9 | d. | 14 |

  |
|  |  |  **You randomly choose one of the chips. Without replacing the first chip, you choose a second chip. Find the probability of choosing the first chip, then the second chip.**  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  9.  | Green and Whitemc009-1.jpg

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc009-2.jpg | c. | mc009-4.jpg |
| b. | mc009-3.jpg | d. | mc009-5.jpg |

  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  10.  | White and *not* a Blackmc010-1.jpg

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mc010-2.jpg | c. | mc010-4.jpg |
| b. | mc010-3.jpg | d. | mc010-5.jpg |

  |
| **Short Answer**  |
|  |  |  **You randomly choose one of the tiles shown below. Find the favorable outcomes of the event.nar001-1.jpg**  |
|  |  11.  | Choosing an odd number  |
|  |  12.  | Choosing a number divisible by 3  |
|  |  13.  | You want to estimate the number of students who buy school lunch. You survey students as they wait in line at the school cafeteria. Determine whether the sample is *biased* or *unbiased*. Explain. |

14. What is the difference between independent event and dependent event?

<https://static.bigideasmath.com/protected/content/ipe_ca/grade%207/extra_help/10/tp_10_ct.htm>