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

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

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| **Multiple Choice** *Identify the choice that best completes the statement or answers the question.* | | |
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|  | 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** |
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|  | 2. | *Not* spinning a 4   |  |  |  |  | | --- | --- | --- | --- | | a. | mc002-1.jpg | c. | mc002-3.jpg | | b. | mc002-2.jpg | d. | mc002-4.jpg | |
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|  | 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.** |
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|  | 4. | Rolling a 3   |  |  |  |  | | --- | --- | --- | --- | | a. | mc004-1.jpg | c. | mc004-3.jpg | | b. | mc004-2.jpg | d. | mc004-4.jpg | |
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|  | 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.** |
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|  | 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 | |
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|  | 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.** |
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|  | 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.** |
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|  | 9. | Green and White mc009-1.jpg   |  |  |  |  | | --- | --- | --- | --- | | a. | mc009-2.jpg | c. | mc009-4.jpg | | b. | mc009-3.jpg | d. | mc009-5.jpg | |
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|  | 10. | White and *not* a Black mc010-1.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>