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| Year  9 | | Basic Probability Practice Test | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
| 1. | What is the probability of drawing a card showing a diamond from a normal pack of cards?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | A spinner in a game has six equal sectors coloured as shown. What is the probability of the spinner landing on a blue sector on a single spin?  ...........................................................................  ...........................................................................    ............................................................................  .............................................................................. | | | |
| 3. | The probability that a swimmer wins a particular race is 80%. What is the probability that he will not win?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | On a single roll of a fair die, what is the probability of rolling a number larger than 4?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 5. | Give an estimate for the probability that it will rain at some stage in the next six months.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | A raffle has 200 tickets and Jessica buys 10 tickets. What is the probability that she will win the raffle?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | Find the probability of drawing a grey or black ball from the container shown.  ............................................................................  ............................................................................  ........................................................................... | | | |
|  | Questions 8 -10 refer to the drawing of the 8 skirts in Andreas wardrobe. Andrea selects a skirt at random.  . | | | |
| 8. | What is the probability that she will select a long black skirt?  .............................................................................................................................................    ............................................................................ ................................................................ | | | |
| 9. | What is the probability that she will not select a short black skirt?  .............................................................................................................................................    ............................................................................ ................................................................ | | | |
| 10. | What is the probability that she will select a skirt that is either long or white?  .............................................................................................................................................    ............................................................................ ................................................................ | | | |

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|  | Questions 11 -14 refer to the table below which records Andy’s results in his last 50 tennis matches comparing how often his first serve was in.     |  |  |  |  | | --- | --- | --- | --- | |  | Serve ≥ 60% | Serve < 60% | Totals | | Won the match | 25 | 6 | 31 | | Lost the match | 7 | 12 | 19 | | Totals | 32 | 18 | 50 |   **One of his matches is chosen at random.** |
| 11. | What is the probability that he won the match?  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 12. | What is the probability that he served < 60% in the match?  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 13. | What is the probability that he won the match and served < 60%?  ..........................................................................................................................................................    .......................................................................................................................................................... |
| 14. | If we know that he won the match, what is the probability that he served < 60% in the match?  ..........................................................................................................................................................    .......................................................................................................................................................... |

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| Year  9 | | Basic Probability Practice Test | | Calculator |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Mark all your answers on the accompanying multiple choice answer sheet, not on this Practice Test paper. You may do any working out on this Practice Test paper. Calculators are allowed for this section. | | | |
| 1. | In a single throw of a normal die, the probability of an even number showing is :  A.  B.  C.  D. | | | |
| 2. | Joe said “There are fourteen students in a foot race. The probability that any one student will win the race is ”  This statement is:   1. always true, regardless of who the students are. 2. always false, regardless of who the students are. 3. true only if one student is far better than the others. 4. true only if all of the students had equal ability. | | | |
| 3. | The probability that the sun will rise tomorrow would be :   1. Close to 1 2. Close to 0. 3. About 0.5 4. Between 0.5 and 0.8 | | | |
| 4. | The letters of the word EXCELLENT are written on separate cards and placed in a hat. One card is drawn out at random. What is the probability that it shows the letter E?  A.  B.  C.  D. | | | |
| 5. | A raffle has 200 tickets, numbered 1 to 200. Mitchell buys all of the tickets which end in a 0. What is the probability that he will win?  A.  B.  C.  D. | | | |
| 6. | Which of the following percentages would best represent an event which was unlikely to occur?  A 25% B 50% C 75% D 100% | | | |
| 7. | A bag contains 8 cards labelled 1 to 8. If one is chosen at random, what is the probability of selecting the 2 card or the 3 card?  **A**  **B**  **C**  **D** | | | |
| 8. | A bag contains white and red balls. If the probability of selecting a white ball is , what is the probability of selecting a red ball?  **A**  **B**  **C**  **D** | | | |
| 9. | A card is selected from a normal pack of 52 cards. What is the probability that it is a black ace or a black king?  A.  B.  C.  D. | | | |
| 10. | What is the probability of not rolling a 2 or 3 on a single roll of a die?  A.  B  C.  D. | | | |
| 11. | A bag contains 40 marbles of different colours. We know that 16 are red, 12 are blue and the rest are yellow. One marble is drawn at random from the bag. Which statement is correct?  A. The probability of drawing a red marble equals the probability of drawing a blue marble.  B. The probability of drawing a blue marble equals the probability of drawing a yellow marble.  C. The probability of drawing a red marble equals the probability of drawing a yellow marble.  D. No two colours have the same probability. | | | |
| 12. | The letters of the word ASSESSMENT are written on separate cards and placed in a hat. One card is chosen at random. What is the probability of choosing E or S?  A.  B.  C.  D. | | | |

Basic Probability Practice Test

Multiple Choice Section

Answer Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D

11. A B C D

12. A B C D