**Quiz - Review Questions: Probability**

1. **When drawing one card from a deck of cards, hearts are \_\_\_\_\_ likely to be drawn when compared to any other suit.**

|  |  |
| --- | --- |
|  | more |
|  | less |
|  | equally |

1. **An  event is one that cannot happen.**
2. **A letter is chosen at random from the word 'mathematics'. What is the probability that it is not a vowel?**

|  |  |
| --- | --- |
|  | 4/7 |
|  | 1/4 |
|  | 1/7 |
|  | 7/11 |
|  | 4/11 |

1. **Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **4.1 an even number is thrown on a die** |  | A | 1/4 |
| **4.2 two coins land on fronts** |  | B | 2/3 |
| **4.3 a card drawn from a full pack is a queen** |  | C | 1/8 |
| **4.4 a number less than 5 is thrown on a die** |  | D | 1/2 |
| **4.5 all three children in a family are boys** |  | E | 1/13 |

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1. **One card is drawn from a set of ten cards, numbered from 1 to 10. Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **5.1 the card is 10** |  | **A** | **0.3** |
| **5.2 the card is 20** |  | **B** | **0.5** |
| **5.3 the card is an odd number** |  | **C** | **0.1** |
| **5.4 the card is above 6** |  | **D** | **0.4** |
| **5.5 the card is not divisible by 3** |  | **E** | **0** |

1. **Our team has a 60% chance of winning a football match. What is the probability that we will *not* win the football match?**

|  |  |
| --- | --- |
|  | 40% |
|  | 100% |
|  | 60% |
|  | 30% |

1. **What is the probability of throwing an even number when you throw a die?**

|  |  |
| --- | --- |
|  | 1/2 |
|  | 1/4 |
|  | 5/6 |
|  | 1/6 |
|  | 1/3 |

1. **There is one chance in \_\_\_\_\_ of tossing two backs with two coins.**

|  |  |
| --- | --- |
|  | 5 |
|  | 3 |
|  | 2 |
|  | 4 |
|  | 6 |

1. **There is one chance in  of drawing a heart or a diamond from a pack of cards.**
2. **An  event is one that cannot happen.**
3. **The name of one day of the week is chosen at random. What is the probability that it contains the letter 's'?**

|  |  |
| --- | --- |
|  | 1/7 |
|  | 1/2 |
|  | 2/7 |
|  | 1/5 |
|  | 5/7 |

1. **Two coins are tossed. What is the probability that they land with one front and one back?**

|  |  |
| --- | --- |
|  | 2/3 |
|  | 1/4 |
|  | 1/2 |
|  | 3/4 |

1. **Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **13.1 a horse will win the next Dubai World Cup** |  | A | impossible |
| **13.2 you throw a 7 on an ordinary die** |  | B | certain |
| **13.3 a coin lands on backs** |  | C | 50:50 |
| **13.4 you win the lottery** |  | D | not likely |

1. **Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **14.1 an even number is thrown on a die** |  | A | 1/4 |
| **14.2 two coins land on fronts** |  | B | 2/3 |
| **14.3 a card drawn from a full pack is a queen** |  | C | 1/8 |
| **14.4 a number less than 5 is thrown on a die** |  | D | 1/2 |
| **14.5 all three children in a family are boys** |  | E | 1/13 |

1. **A spinner has 24 segments: 3 red, 4 blue, 6 green and the rest black. Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **15.1 it lands on red** |  | A | 1/8 |
| **15.2 it lands on blue** |  | B | 1/4 |
| **15.3 it lands on green** |  | C | 7/12 |
| **15.4 it is neither blue nor green** |  | D | 1/6 |
| **15.5 it is black** |  | E | 11/24 |

1. **Three children are born into a family. What is the probability that they are all girls?**

|  |  |
| --- | --- |
|  | 1/2 |
|  | 1/4 |
|  | 1/3 |
|  | 3/8 |
|  | 1/8 |

1. **Two dice are thrown and the scores are added. What is the probability that the total is less than 5?**

|  |  |
| --- | --- |
|  | 1/2 |
|  | 5/36 |
|  | 1/6 |
|  | 1/3 |
|  | 1/36 |

1. **One card is drawn from a set of ten cards, numbered from 1 to 10. Match each event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **18.1 the card is 10** |  | A | 0.3 |
| **18.2 the card is 20** |  | B | 0.5 |
| **18.3 the card is an odd number** |  | C | 0.1 |
| **18.4 the card is above 6** |  | D | 0.4 |
| **18.5 the card is not divisible by 3** |  | E | 0 |

1. **The opposite of impossible is \_\_\_.**

|  |  |
| --- | --- |
|  | certain |
|  | unlikely |
|  | possible |
|  | likely |

1. **Throwing a 6 on a die is  likely than throwing an odd number.**
2. **A month is selected at random from the months in the year. Match the event on the left with its probability on the right.**

|  |  |  |  |
| --- | --- | --- | --- |
| **23.1 the month has at least 28 days** |  | A | 1/4 |
| **23.2 the month begins with the letter ‘m’** |  | B | 7/12 |
| **23.3 the month has 31 days** |  | C | **0** |
| **23.4 the month begins with a vowel** |  | D | 1/6 |
| **23.5 the month has 32 days** |  | E | **1** |
| **23.6 the month ends in the letter ‘r’** |  | F | 1/3 |