

# The Dice Game

Three players A, B, and C play a game with a single die.

The rules of the game are:

- + Player A always goes first. A rolls the die. If the die lands showing a 1, then A wins the game. If A does not throw a 1, then B has a turn.
- + Player B rolls the die. If the die lands showing a 2 or 3, then B wins the game. If B does not throw a 2 or 3, then C has a turn.
- + Player C rolls the die. If the die lands showing a 4, 5, or 6, then C wins the game. If C does not throw a 4, 5, or 6, then A starts again.



This procedure continues until there is a winner.

## INVESTIGATE

1. Determine a **hypothesis** about who may be the most likely winner (based on the reading of the rules, not on any actual calculations)
2. The **probabilities** of each player (A, B, and C) winning the game  
**NOTE:** Calculate the probabilities with their first roll only!
3. Who will be the **most likely winner**? (based on your calculations from part two)
4. What is the **most likely length of the game** in terms of the number of rolls of the dice  
**NOTE:** You may need to calculate new probabilities for each player as they may have a second roll of the die.  
**HINT:** When do you stop calculating?!

Thinking/Inquiry Problems Solving – predict the most likely winner and the most likely length of the game			
<ul style="list-style-type: none"> <li>Communicates a detailed understanding of probability concepts</li> <li>Has evidence of an initial hypothesis</li> <li>Conclusions are made based on the supporting evidence</li> </ul>	<ul style="list-style-type: none"> <li>Communicates some understanding of probability concepts</li> <li>A hypothesis is made predicting who will win the game</li> <li>Conclusions are made based on data collected</li> </ul>	<ul style="list-style-type: none"> <li>Communicates some understanding of probability concepts</li> <li>A hypothesis is made predicting who will win the game that refers to knowledge of probability</li> <li>Data trends are made based on data collected and experimental probability</li> </ul>	<ul style="list-style-type: none"> <li>Communicates a thorough understanding of probability concepts</li> <li>A hypothesis is made predicting who is most likely to win that is justifying knowledge of probability</li> <li>Evidence is offered as to who the probabilities are for all the game</li> <li>Conclusions are made based on data collected, experimental and theoretical probabilities</li> </ul>
Communication – solutions presented clearly with full mathematical reasoning			
<ul style="list-style-type: none"> <li>Communicates with good clarity</li> <li>Has a results of data collected and tested</li> </ul>	<ul style="list-style-type: none"> <li>Communicates with some clarity</li> <li>Has a results of data collected and tested</li> </ul>	<ul style="list-style-type: none"> <li>Communicates with some clarity</li> <li>Results are presented in a clear, tabular way</li> </ul>	<ul style="list-style-type: none"> <li>Communicates with a high degree of clarity</li> <li>Results are presented in a clear, tabular way and linked with other students' results</li> </ul>
Knowledge Application – determine the theoretical/experimental probability of each player winning the game			
<ul style="list-style-type: none"> <li>Determines the experimental probability but is unable to compare the theoretical probability</li> <li>It states the length of a game based on data collected</li> </ul>	<ul style="list-style-type: none"> <li>Determines the experimental probability and theoretical probability in a way that demonstrates some understanding of the concepts</li> <li>Predicts the length of a game based on data collected with</li> </ul>	<ul style="list-style-type: none"> <li>Determines the experimental probability and theoretical probability in a way that demonstrates some understanding of the concepts</li> <li>It states the average length of the game from data collected</li> </ul>	<ul style="list-style-type: none"> <li>Determines the experimental probability and theoretical probability in a way that demonstrates a thorough understanding of the concepts</li> <li>Uses a comparison to moderate results of the game</li> <li>Calculates the average length of the game from data collected with justification</li> </ul>

# Dice Game A453 Task 2

**John Belton, Joella Cramblit**



**Dice Game A453 Task 2:**

*Dice Games* John Belton, Joella Cramblit, 1976 Illustrated instructions for ten dice games

The Top Books of the Year Dice Game A453 Task 2 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Dice Game A453 Task 2 : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://nodedev.waldoch.com/About/publication/index.jsp/Space%20Opera%20Saga%20Collection.pdf>

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### **Dice Game A453 Task 2 Introduction**

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