

Solutions to Chapter 1 Review Exercises

1. For the sum to be 9, the 3 dice could come up as a 6 and a 1 and a 2; a 5 and either two 2s or a 1 and a 3; a 4 and either a 2 and a 3 or a 1 and a second 4; or three 3s. These are the only possibilities. There is only one way to get three 3s. There are 3 ways that one 5 and two 2s could be arranged among the 3 distinct dice. (3 choices for what colour the 5 comes up on, or $\binom{3}{2} = 3$ choices for which 2 dice show 2.) The same for two fours and a 1. And for each of the other three ways of getting a sum of 9, there are 3 distinct numbers so $3!$ ways they might be arranged on the 3 distinct dice. Therefore the total number of ways to get a sum of 9 when 3 dice are tossed is $1 + 2(3) + 3(3!) = 25$.
2. The band is going to go to 2 cities in Mexico, then 10 in the US followed by 3 in Canada. That's 15 cities they need to fly to. They start from Toronto (Canada) where they're based, to go to the first city, and the last performance is in Toronto, so they don't need to fly anywhere from the 15th city. So that's 15 flights to be booked. For each city on the tour, they have to fly out of that city, using an airline of the country that city is in. Except that they fly out of Toronto before the first concert date, instead of after the last. But that's still 2 flights out of Mexican cities, 10 flights out of US cities and 3 flights out of Canadian cities. Since they will not be using any airline more than once, they will use 2 of the 5 Mexican airlines, will use 10 of the 15 US airlines and will use 3 of the 7 Canadian airlines. But the airlines they will use must be arranged among the cities. So we need to arrange 2 of the 5 Mexican airlines, arrange 10 of the 15 US airlines and arrange 3 of the 7 Canadian airlines. The number of ways in which this can be done, i.e. the number of different ways to book flights for their tour, is

$$\binom{5}{2} \times 2! \times \binom{15}{10} \times 10! \times \binom{7}{3} \times 3! = \frac{5!}{2!} \times \frac{15!}{5!} \times \frac{7!}{4!}$$

3. There will be a row of 12 candles down the centre of the table. That's 12 distinct positions for candles. There are 5 identical red candles, 4 identical golden candles and 3 identical silver candles. The number of ways to choose a group of 5 positions in which to put the red candles, a group of 4 positions for the golden candles and a group of 3 positions for the silver candles (or the number of ways to arrange 5 identical objects of one type, 4 identical objects of another type and 3 identical objects of a third type) is $\binom{12}{5, 4, 3}$.
4. There are 5 distinct instruments to be arranged among the 5 musicians. The number of ways of doing this (i.e. of each of them choosing a different one of the instruments) is $5!$. Now, the musicians need to arrange themselves around the campfire. If there were no restrictions, the 5 people could be arranged in a circle around the campfire in $4!$ different ways. However, the 2 people with the guitars aren't to be side-by-side in the circle. Of the circles we counted, the number that do have those 2 next to one another is found by arranging 3 individual people without guitars and one pair of guitar players in a circle and then arranging the guitar players within their pair. So that makes $3! \times 2!$ circles we don't want to count. Thus we see that the number of ways in which they can each choose an instrument and then sit around the campfire with the 2 people with guitars not beside one another is

$$5! \times (4! - 3!2!)$$

Another way to approach the counting of the ways to make the circle would be to arrange one of the guitar players and the 3 non-guitar players in a circle, and then have the other guitar player choose a position that is not beside the one who's already in the circle. In a circle of 4 people, there are 4 distinct positions. Two of these are beside the guitar player (to the left or to the right). The other two are not. So there are $3!$ ways to make the circle (without the second guitar player) and then 2 choices for where the second guitar player will sit. That gives $3! \times 2$ ways to arrange the 5 musicians in the circle. (Notice that $4! - 3!2! = 4(3!) - 2!(3!) = 3!(4 - 2) = 3! \times 2$.)

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Table of Contents Solutions Chapter 1review Answers

1. Understanding the eBook Solutions Chapter 1review Answers
 - The Rise of Digital Reading Solutions Chapter 1review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Chapter 1review Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solutions Chapter 1review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Chapter 1review Answers
 - Personalized Recommendations
 - Solutions Chapter 1review Answers User Reviews and Ratings
 - Solutions Chapter 1review Answers and Bestseller Lists

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 - Solutions Chapter 1review Answers Public Domain eBooks
 - Solutions Chapter 1review Answers eBook Subscription Services
 - Solutions Chapter 1review Answers Budget-Friendly Options
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 - Solutions Chapter 1review Answers Compatibility with Devices
 - Solutions Chapter 1review Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solutions Chapter 1review Answers
 - Highlighting and Note-Taking Solutions Chapter 1review Answers
 - Interactive Elements Solutions Chapter 1review Answers
8. Staying Engaged with Solutions Chapter 1review Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Chapter 1review Answers
9. Balancing eBooks and Physical Books Solutions Chapter 1review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Chapter 1review Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solutions Chapter 1review Answers
 - Setting Reading Goals Solutions Chapter 1review Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Chapter 1review Answers
 - Fact-Checking eBook Content of Solutions Chapter 1review Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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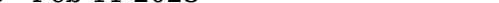
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