# CONTINGENCY TABLES

A contingency table is a tabular display that subdivides data, often into "male" and "temale" and often looking at how many of each do X and how many of each do Y and so on.

The rows and columns are usually totalled. The number in the lower right comer of the table tells us the value of n, the total sample size.

We can read many different probabilities using the information in a contingency table.

# Example 1:

A survey was done to see how many Grade 8 students owned an iPad. The results are shown in the contingency table below:

	Owns an iPad	Doesn't own an iPad	TOTAL
Male	7	4	11
Female	3	6	9
TOTAL	10	10	20

Notice that the rows and columns both total to 20. This means that a total of 20 students participated in the survey.

When reading probabilities, the most important thing is to identify the <u>correct sample</u> <u>space</u>:

- The probability that a randomly selected student is male = <sup>11</sup>/<sub>30</sub>
- The probability that a randomly selected male student owns an iPad= <sup>7</sup>/<sub>11</sub>

# Worksheet 24: Contingency tables

 A tournament organiser conducted a survey among 100 members of Paradise Sports Club to find out whether they play darts or not. The results are shown in the table below.

	Playing darts	Not playing darts	TOTAL
Male	30	40	70
Female	24		1
TOTAL	54	46	100

(a) Con	rigilete the table by filling in	the missing values.
	at is the probability that a m is female.	nember selected at random:
(2)	ls male.	
(3)	Is female and plays darts	
(4)	Is male and does not play	y darts.

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## **Table of Contents Probability Assignment Grade 8**

- 1. Understanding the eBook Probability Assignment Grade 8
  - The Rise of Digital Reading Probability Assignment Grade 8
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Probability Assignment Grade 8
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Probability Assignment Grade 8
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Probability Assignment Grade 8
  - Personalized Recommendations
  - Probability Assignment Grade 8 User Reviews and Ratings
  - $\circ\,$  Probability Assignment Grade 8 and Bestseller Lists
- 5. Accessing Probability Assignment Grade 8 Free and Paid eBooks
  - Probability Assignment Grade 8 Public Domain eBooks
  - Probability Assignment Grade 8 eBook Subscription Services

- Probability Assignment Grade 8 Budget-Friendly Options
- 6. Navigating Probability Assignment Grade 8 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Probability Assignment Grade 8 Compatibility with Devices
  - Probability Assignment Grade 8 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Probability Assignment Grade 8
  - Highlighting and Note-Taking Probability Assignment Grade 8
  - Interactive Elements Probability Assignment Grade 8
- 8. Staying Engaged with Probability Assignment Grade 8
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Probability Assignment Grade 8
- 9. Balancing eBooks and Physical Books Probability Assignment Grade 8
  - Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Probability Assignment Grade 8
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Probability Assignment Grade 8
  - Setting Reading Goals Probability Assignment Grade 8
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Probability Assignment Grade 8
  - Fact-Checking eBook Content of Probability Assignment Grade 8
  - 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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