

# ISAT-U Students' Daily Allowance Sufficiency

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## ## I. Introduction

## Daily allowance plays an important role in meeting the everyday needs of  
## college students, including transportation, meals, school supplies, and  
## other essential expenses. For students of Iloilo Science and Technology  
## University (ISAT-U), the adequacy of their daily allowance can greatly  
## influence their academic experience and overall well-being.  
##  
## This study  
## aims to assess whether the daily allowance of ISAT-U college students is  
## sufficient to cover their daily needs. Using data gathered from a student  
## survey, this research analyzes students' daily allowance, spending patterns,  
## and perceptions of financial sufficiency. The collected data are presented  
## through graphical representations to clearly illustrate trends and  
## differences among respondents.

```
data <- read.csv("Daily-allowance.csv")  
names(data)
```

```
## [1] "Timestamp"  
## [2] "Data.Privacy.Notice...We.value.your.privacy.and.are.committed.to.safeguarding.your.personal.in."  
## [3] "Course..Year.and.Section..Ex..BSIT.1...C."  
## [4] "Name..Optional."  
## [5] "Age"  
## [6] "Sex"  
## [7] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [8] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [9] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [10] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [11] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [12] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [13] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [14] "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs."  
## [15] "My.daily.allowance.is.enough.to.cover.my.transportation.expenses."  
## [16] "My.daily.allowance.is.enough.to.cover.my.school.materials.and.supplies."  
## [17] "My.daily.allowance.is.enough.to.buy.food.and.snacks.during.the.day."  
## [18] "My.daily.allowance.is.enough.to.pay.for.occasional.school.projects.or.contributions."  
## [19] "My.daily.allowance.is.enough.to.allow.me.to.save.a.small.amount.regularly."
```

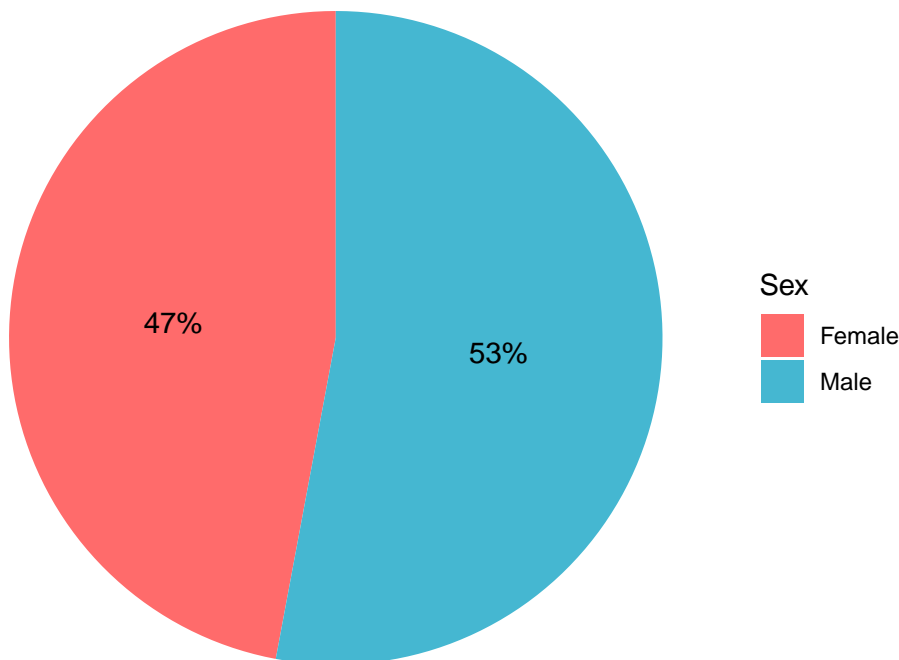
```
library(ggplot2)  
sex_data <- data.frame(  
  Sex = c("Female", "Male"),  
  Count = c(24, 27)
```

```
)

sex_data$Percent <- round(sex_data$Count / sum(sex_data$Count) * 100)

ggplot(sex_data, aes(x = "", y = Count, fill = Sex)) +
  geom_bar(stat = "identity", width = 1) +
  coord_polar(theta = "y") +
  theme_void() +
  geom_text(aes(label = paste0(Percent, "%")),
    position = position_stack(vjust = 0.5)) +
  scale_fill_manual(values = c("Female" = "#FF6B6B", "Male" = "#45B7D1")) +
  labs(title = "Distribution of Male and Female Students")
```

## Distribution of Male and Female Students



```
## The survey results show that the student population in the sample is fairly
## balanced in terms of gender. Males slightly outnumber females, with 27 male
## students (53%) compared to 24 female students (47%). This near-equal
## distribution suggests that any analysis of daily allowance sufficiency will
## fairly represent the perspectives of both genders. Additionally, the pie
## chart clearly visualizes this balance, making it easy to see that neither
## gender dominates the sample, which supports more equitable comparisons in
## subsequent analyses.
```

```
numeric_ages <- as.numeric(data$Age)

## Warning: NAs introduced by coercion

numeric_ages <- numeric_ages[!is.na(numeric_ages)]
numeric_ages <- c(numeric_ages, 18)

age_counts <- table(numeric_ages)
```

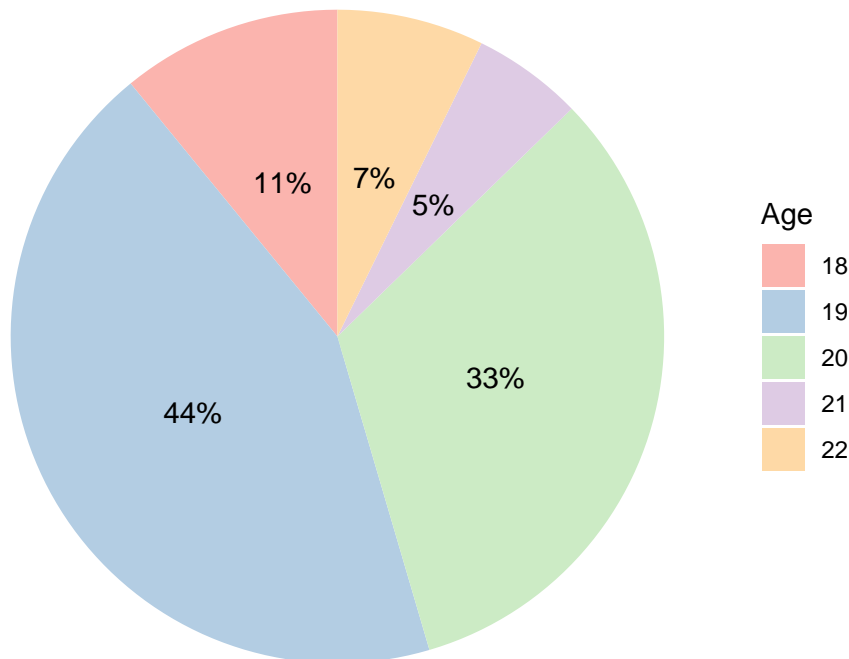
```

age_data <- as.data.frame(age_counts)
colnames(age_data) <- c("Age", "Count")
age_data$Percent <- round(age_data$Count / sum(age_data$Count) * 100)

ggplot(age_data, aes(x = "", y = Count, fill = Age)) +
  geom_bar(stat = "identity", width = 1) +
  coord_polar(theta = "y") +
  theme_void() +
  geom_text(aes(label = paste0(Percent, "%")),
    position = position_stack(vjust = 0.5)) +
  scale_fill_brewer(palette = "Pastell1") +
  labs(title = "ISAT-U College Students")

```

## ISAT-U College Students



```

## Most respondents are 19 and 20 years old, indicating that the typical
## college student in the survey falls within this age range. Fewer students
## are younger (18) or older (21-22), which provides context for understanding
## their daily allowance usage patterns.

```

```

data <- read.csv("Daily-allowance.csv", stringsAsFactors = FALSE)

allowance_names <- c(
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...50.",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...100",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...150",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...200",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...250",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...300",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...350",
  "Please.select.and.rate.how.sufficient.you.think.each.amount.of.daily.allowance.for.your.needs...400"
)

```

```

)

allowance_cols <- match(allowance_names, names(data))
names(data)[allowance_cols] <- paste0("pesos", c(50,100,150,200,250,300,350,400))

convert <- c(
  "Not Enough" = 1,
  "Slightly Enough" = 2,
  "Moderately Enough" = 3,
  "Enough" = 4,
  "More than Enough" = 5
)

data[allowance_cols] <- lapply(data[allowance_cols], function(x) {
  x <- trimws(x)
  x <- gsub("\\.+", "", x)
  x <- gsub("[^A-Za-z ]", "", x)
  x <- convert[x]
  as.numeric(x)
})

counts <- sapply(data[allowance_cols], function(x) {
  table(factor(x, levels = 1:5))
})

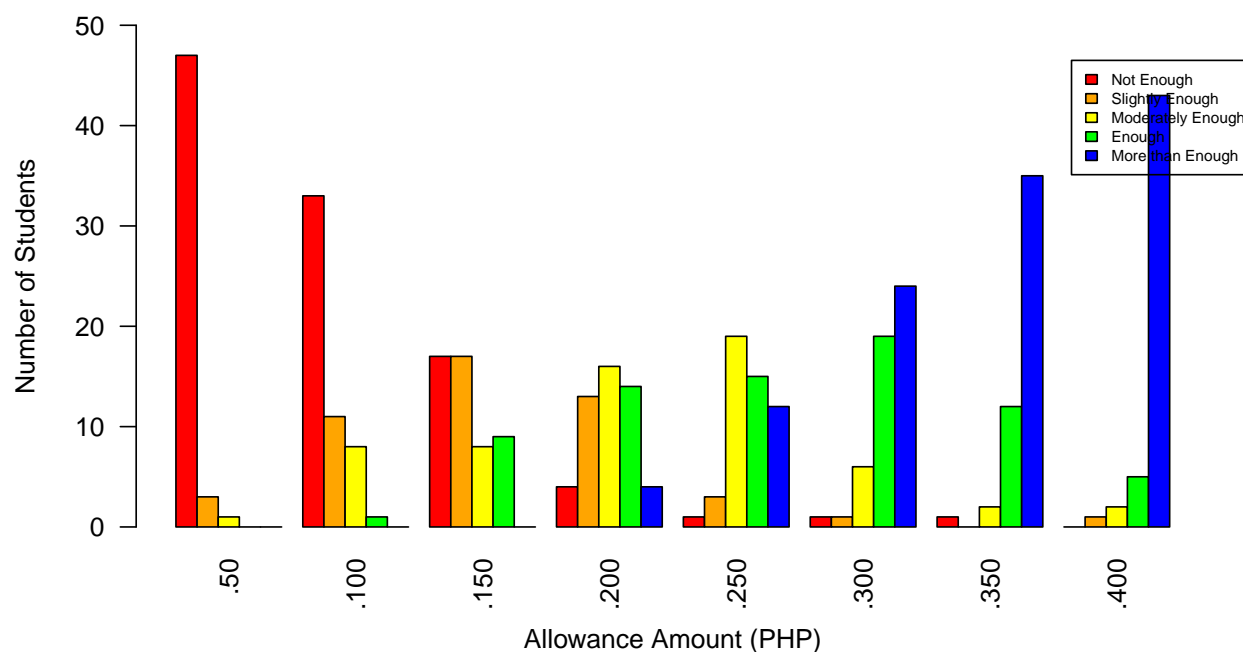
rownames(counts) <- c("Not Enough", "Slightly Enough", "Moderately Enough",
  "Enough", "More than Enough")

colors <- c("red","orange","yellow","green","blue")

barplot(counts,
  col = colors,
  main = "Allowance Amounts Considered Sufficient by Students",
  xlab = "Allowance Amount (PHP)",
  ylab = "Number of Students",
  legend.text = rownames(counts),
  args.legend = list(x = "topright", inset = c(-0.04, 0.07), cex = 0.6),
  names.arg = paste0("P", c(50,100,150,200,250,300,350,400)),
  las = 2,
  beside = TRUE,
  ylim = c(0, 50))

```

## Allowance Amounts Considered Sufficient by Students



```
counts_table <- as.data.frame(counts)
colnames(counts_table) <- paste0("P", c(50,100,150,200,250,300,350,400))
counts_table
```

```
##          P50 P100 P150 P200 P250 P300 P350 P400
## Not Enough      47   33   17    4    1    1    1    0
## Slightly Enough    3   11   17   13    3    1    0    1
## Moderately Enough  1    8    8   16   19    6    2    2
## Enough           0    1    9   14   15   19   12    5
## More than Enough  0    0    0    4   12   24   35   43
```

```
## As shown in the bar graph, the data suggest that a daily allowance of
## around P250 to P300 is commonly rated as Moderately Enough to Enough,
## indicating that it is sufficient to meet students' daily needs in school.
## In contrast, at P50 and P100, most students rated the allowance as Not
## Enough, reflecting insufficiency. Meanwhile, allowances ranging from P300
## to P400 received higher ratings, with many students perceiving them as
## Enough or More than Enough.
```

```
q1 <- data[["My.daily.allowance.is.enough.to.cover.my.transportation.expenses."]]
```

```
q1_split <- unlist(strsplit(q1, ";"))
q1_split <- trimws(q1_split)
q1_split <- tolower(q1_split)
```

```
q1_split[q1_split == "strongly disagree"] <- "Strongly Disagree"
q1_split[q1_split == "disagree"] <- "Disagree"
q1_split[q1_split == "neutral"] <- "Neutral"
q1_split[q1_split == "agree"] <- "Agree"
q1_split[q1_split == "strongly agree"] <- "Strongly Agree"
```

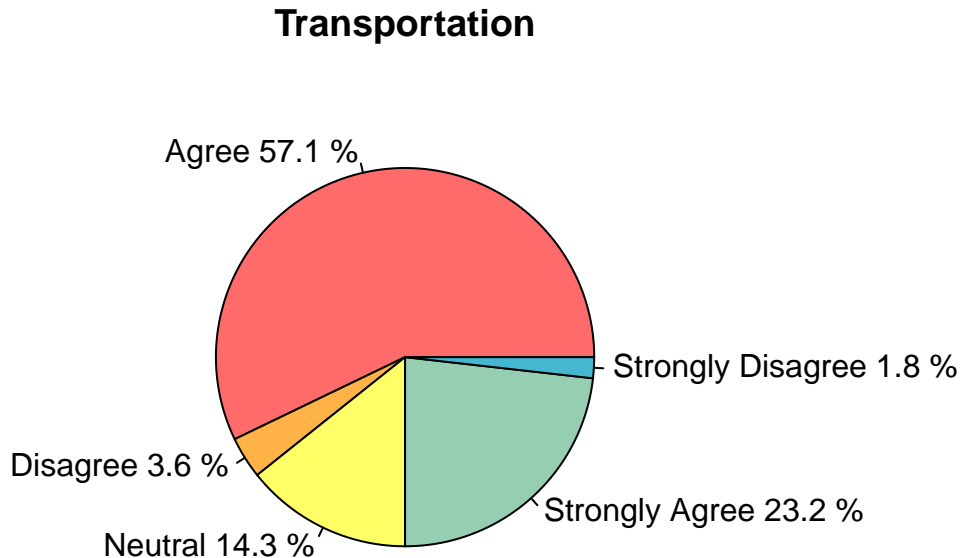
```
q1_count <- table(q1_split)
```

```

colors <- c("#FF6B6B", "#FFB347", "#FFFF66", "#96CEB4", "#45B7D1")

pie(q1_count,
    labels = paste(names(q1_count), round(q1_count/sum(q1_count)*100, 1), "%"),
    col = colors,
    main = "Transportation")

```



## The pie chart indicates that the majority of respondents believe their daily allowance is sufficient to cover transportation expenses. More than half (57.1%) of the respondents selected Agree, while an additional 23.2% chose Strongly Agree, showing that most students can afford their daily transportation needs. Meanwhile, 14.3% of respondents selected Neutral, suggesting some uncertainty or variability in transportation costs. Only a small percentage Disagreed (3.6%) or Strongly Disagreed (1.8%), indicating that transportation expenses are generally manageable for most students.

```

q1 <- data[["My.daily.allowance.is.enough.to.cover.my.school.materials.and.supplies."]]

q1_split <- unlist(strsplit(q1, ";"))
q1_split <- trimws(q1_split)
q1_split <- tolower(q1_split)

q1_split[q1_split == "strongly disagree"] <- "Strongly Disagree"
q1_split[q1_split == "disagree"] <- "Disagree"
q1_split[q1_split == "neutral"] <- "Neutral"
q1_split[q1_split == "agree"] <- "Agree"
q1_split[q1_split == "strongly agree"] <- "Strongly Agree"

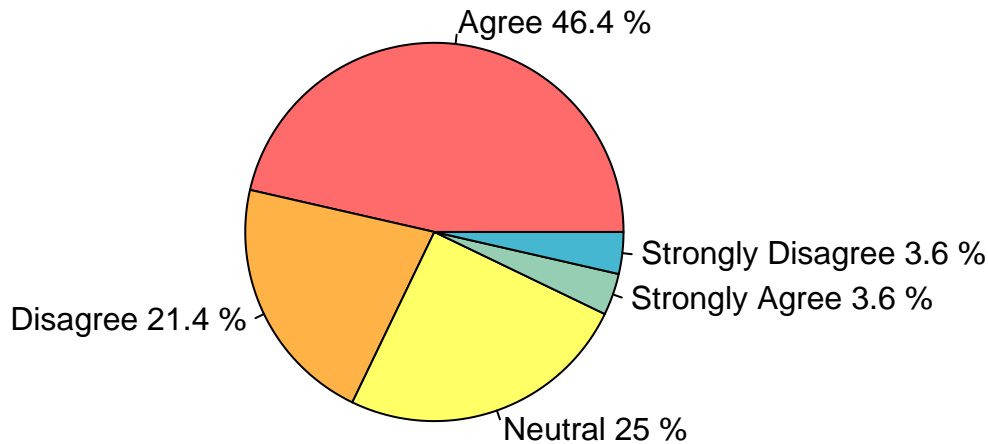
q1_count <- table(q1_split)

colors <- c("#FF6B6B", "#FFB347", "#FFFF66", "#96CEB4", "#45B7D1")

pie(q1_count,
    labels = paste(names(q1_count), round(q1_count/sum(q1_count)*100, 1), "%"),
    col = colors,
    main = "School Materials and Supplies")

```

## School Materials and Supplies



```
## The pie chart shows that a plurality of respondents believe their daily
## allowance is sufficient to cover school materials and supplies. Nearly half
## (46.4%) of the respondents selected Agree, while a small proportion (3.6%)
## chose Strongly Agree, indicating moderate confidence in meeting school
## material expenses. However, 25.0% of respondents selected Neutral,
## suggesting uncertainty or inconsistency in covering these costs. Meanwhile,
## a notable portion Disagreed (21.4%) or Strongly Disagreed (3.6%), indicating
## that a considerable number of students find their allowance insufficient for
## school materials and supplies.
```

```
q1 <- data[["My.daily.allowance.is.enough.to.allow.me.to.save.a.small.amount.regularly."]]

q1_split <- unlist(strsplit(q1, ";"))
q1_split <- trimws(q1_split)
q1_split <- tolower(q1_split)

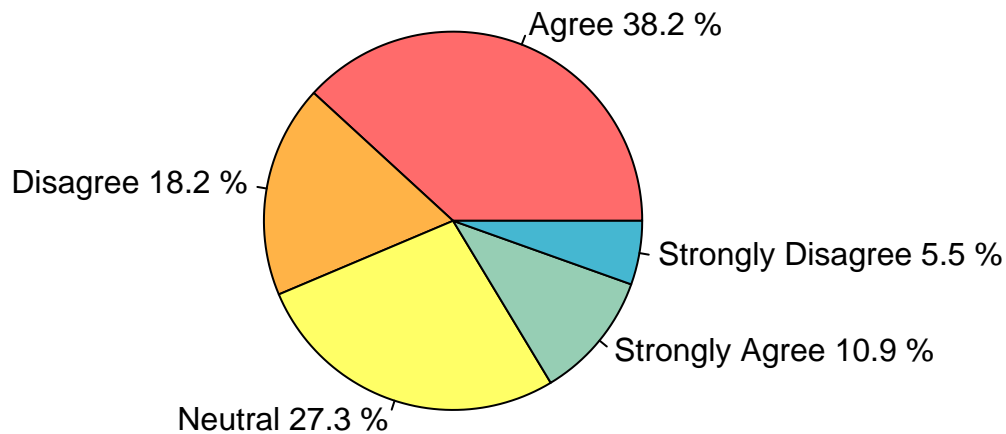
q1_split[q1_split == "strongly disagree"] <- "Strongly Disagree"
q1_split[q1_split == "disagree"] <- "Disagree"
q1_split[q1_split == "neutral"] <- "Neutral"
q1_split[q1_split == "agree"] <- "Agree"
q1_split[q1_split == "strongly agree"] <- "Strongly Agree"

q1_count <- table(q1_split)

colors <- c("#FF6B6B", "#FFB347", "#FFFF66", "#96CEB4", "#45B7D1")

pie(q1_count,
  labels = paste(names(q1_count), round(q1_count/sum(q1_count)*100, 1), "%"),
  col = colors,
  main = "Saving Small Amounts")
```

## Saving Small Amounts



```
## The pie chart shows that 38.2% of the respondents Agreed that their daily
## allowance is enough to allow them to save a small amount regularly, while
## 10.9% Strongly Agreed, indicating that a portion of students are able to
## save. Meanwhile, 27.3% of respondents selected Neutral, suggesting
## uncertainty or irregular saving ability. On the other hand, 18.2%
## Disagreed and 5.5% Strongly Disagreed, showing that some students
## find it difficult to save due to limited allowance.
```

```
q1 <- data[["My.daily.allowance.is.enough.to.buy.food.and.snacks.during.the.day."]]

q1_split <- unlist(strsplit(q1, ";"))
q1_split <- trimws(q1_split)
q1_split <- tolower(q1_split)

q1_split[q1_split == "strongly disagree"] <- "Strongly Disagree"
q1_split[q1_split == "disagree"] <- "Disagree"
q1_split[q1_split == "neutral"] <- "Neutral"
q1_split[q1_split == "agree"] <- "Agree"
q1_split[q1_split == "strongly agree"] <- "Strongly Agree"

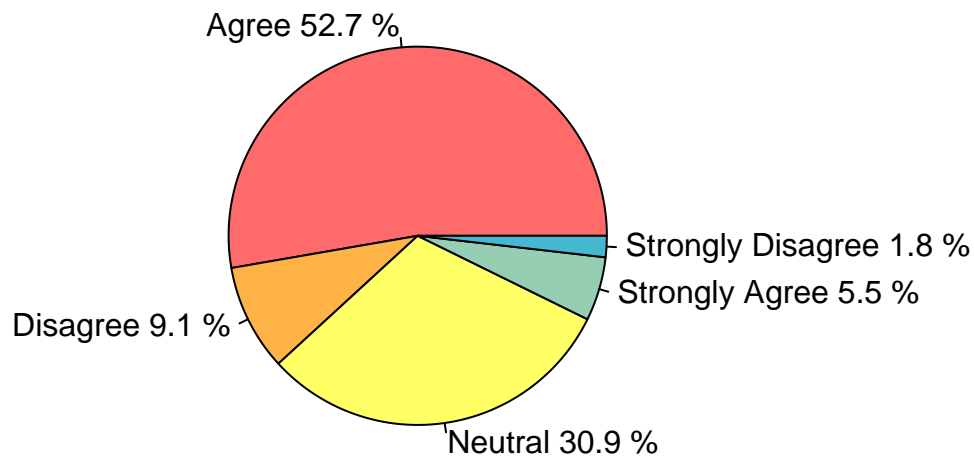
q1_count <- table(q1_split)

colors <- c("#FF6B6B", "#FFB347", "#FFFF66", "#96CEB4", "#45B7D1")

pie(q1_count,
    labels = paste(names(q1_count), round(q1_count/sum(q1_count)*100, 1), "%"),
    col = colors,
    main = "Food and Snacks")
```



## Food and Snacks



```
## As shown in the pie chart, the majority of respondents believe that their
## daily allowance is sufficient to buy food and snacks during the day. More
## than half (52.7%) of the respondents selected Agree, while *5.5% Strongly
## Agree, indicating that most students are able to meet their food needs in
## school. Meanwhile, 30.9% chose Neutral, suggesting uncertainty or
## inconsistency in food sufficiency. Only a small portion Disagreed (9.1%)
## or Strongly Disagreed (1.8%), showing minimal concern regarding
## food affordability.
```

```
q1 <- data[["My.daily.allowance.is.enough.to.pay.for.occasional.school.projects.or.contributions."]]

q1_split <- unlist(strsplit(q1, ";"))
q1_split <- trimws(q1_split)
q1_split <- tolower(q1_split)

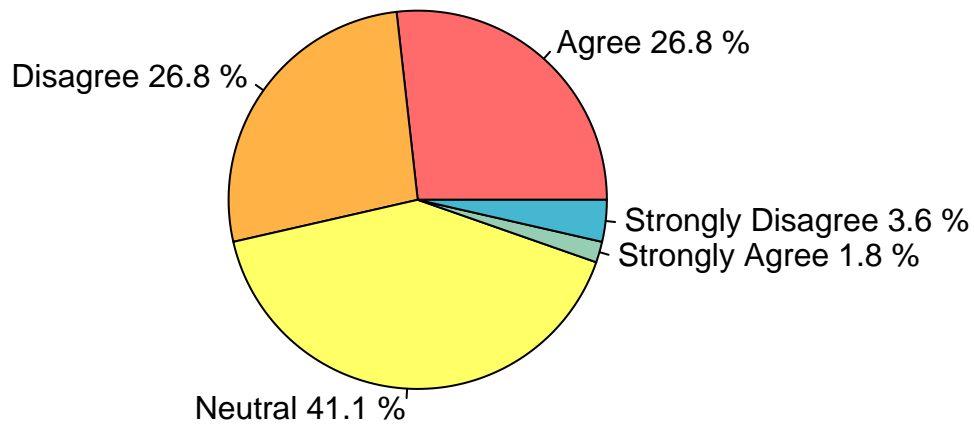
q1_split[q1_split == "strongly disagree"] <- "Strongly Disagree"
q1_split[q1_split == "disagree"] <- "Disagree"
q1_split[q1_split == "neutral"] <- "Neutral"
q1_split[q1_split == "agree"] <- "Agree"
q1_split[q1_split == "strongly agree"] <- "Strongly Agree"

q1_count <- table(q1_split)

colors <- c("#FF6B6B", "#FFB347", "#FFFF66", "#96CEB4", "#45B7D1")

pie(q1_count,
  labels = paste(names(q1_count), round(q1_count/sum(q1_count)*100, 1), "%"),
  col = colors,
  main = "Occasional Projects or Contribution")
```

## Occasional Projects or Contribution



## The pie chart shows that most respondents are uncertain about whether their  
## daily allowance is enough to pay for occasional school projects or  
## contributions. The largest percentage (41.1%) selected Neutral, indicating  
## mixed experiences. Equal proportions of respondents Agreed (26.8%) and  
## Disagreed (26.8%), reflecting divided opinions. Very few respondents  
## expressed strong views, with only \*1.8% Strongly Agreeing and \*3.6%  
## Strongly Disagreeing. This suggests that occasional school expenses may not  
## be consistently covered by students' daily allowance.