

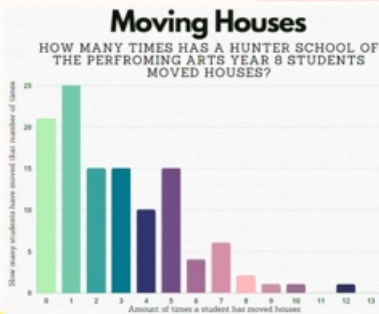
# MOVING HOUSES

How many times has a Hunter School of the Performing Arts Year 8 students moved houses?

## Introduction

We were curious about how many times a Hunter School of the Performing Arts year 8 student has moved houses. This resulted in conducting a survey to find out! So many of the students at HSPA have come from various places all over NSW, some may even have come to our school from all over the world! This lead us to believe that our question "How many times has a Hunter School of the Performing Arts year 8 students moved houses?" was a very appropriate topic to collect data on.

## Graph + Frequency Table



Score	Frequency
0	21
1	25
2	15
3	15
4	10
5	15
6	4
7	6
8	2
9	1
10	1
11	0
12	1
13	0
14	2

## Hypothesis

Our group predicts that on average, HSPA year 8 students have moved houses 2-3 times.

## Aim

Our aim is to investigate how many times HSPA year 8 students have moved houses.

## Conclusion

In conclusion, 17.8% of year 8 students have never moved houses before. The average amount of times a year 8 student has moved houses (out of 118 students) was 3.

Our hypothesis was proven correct, because we predicted on average the most times a HSPA year 8 student had moved houses 2-3 times. However, the most common answer was 1, meaning out of 118 students it is reasonable to assume that year 8 students at HSPA have only moved once in their life.

## Method

To get our data, we went to 6 year 8 classes (8CU, 8DA, 8JO, 8ME, 8PA, and 8AR) to collect primary data. A sample of 118 students participated in the survey. We collected our data by surveying each class individually, asking the question: How many times has a Hunter School of the Performing Arts year 8 students moved houses? Our method for collecting the data was: The students that were currently present on the day were surveyed by calling out a number of times they have moved houses (e.g., 4) and telling them to raise their hand if that was the correct number of times they had moved.

We counted the amount of people who put their hands up and wrote the total next to the number of times (e.g., if 5 people put their hand up for 4, we would write 4.5). We started at 0 and continued until each student had put their hand up once. After we had surveyed all the students that were currently there, we added all the totals together to see how many students in year 8 we surveyed in total. As some were absent, our total number of year 8 students we collected data from was 118. We then analysed that data and found our mean, mode, median and range.

## Data Analysis

All together, we surveyed 118 students. Out of these, the highest number of times somebody had moved houses was 14 times, and the lowest was 0, giving us a range of 14. The mean, or the average score in our data set is 3, the median (middle score) is 2, and finally, the mode, or the most common score in our data set is 1. The outlier in our data set is 14.