





Science project 2020





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- **Title:** Factors associated with number of squirrel on the way to school
- **Student:** Worawalan(Baibua) Manyanont Grade 2T
- **Observational study**
- **Objective:** To know why the number of squirrel is different in each day.
- **Method:**
 - Count the squirrels on the way between home and school(around 500 m.)
 - Record time and weather each day




Date	Time	Temperature(C)	Wheather	Number of squirrels
3/10/2020	08:00 morning	4 C	Cloudy	23
	05:00 afternoon	10 C	Cloudy	3
3/11/2020	08:00 morning	6 C	Cloudy	12
	05:00 afternoon	16 C	Cloudy	9
3/12/2020	08:00 morning	6 C	Cloudy	9
	05:00 afternoon	13 C	Rainy	7
3/13/2020	08:00 morning	5 C	Sunny	16
	05:00 afternoon	8 C	Cloudy	10
3/14/2020	10:30 morning	4 C	Rainy	4
	05:00 afternoon	6 C	Cloudy	10

Date	Time	Temperature(C)	Wheather	Number of squirrels
3/15/2020	09:00 morning	1 C	Sunny	21
	05:00 afternoon	4 C	Cloudy	7
3/16/2020	09:30 morning	3 C	Cloudy	21
	05:00 afternoon	8 C	Cloudy	14
3/17/2020	10:00 morning	7 C	Cloudy	8
	05:00 afternoon	11 C	Cloudy	14
3/18/2020	12:00 morning	9 C	Cloudy	5
	05:00 afternoon	16 C	Cloudy	20
3/19/2020	09:00 morning	14 C	Cloudy	3
	06:00 afternoon	20 C	Rainy	12

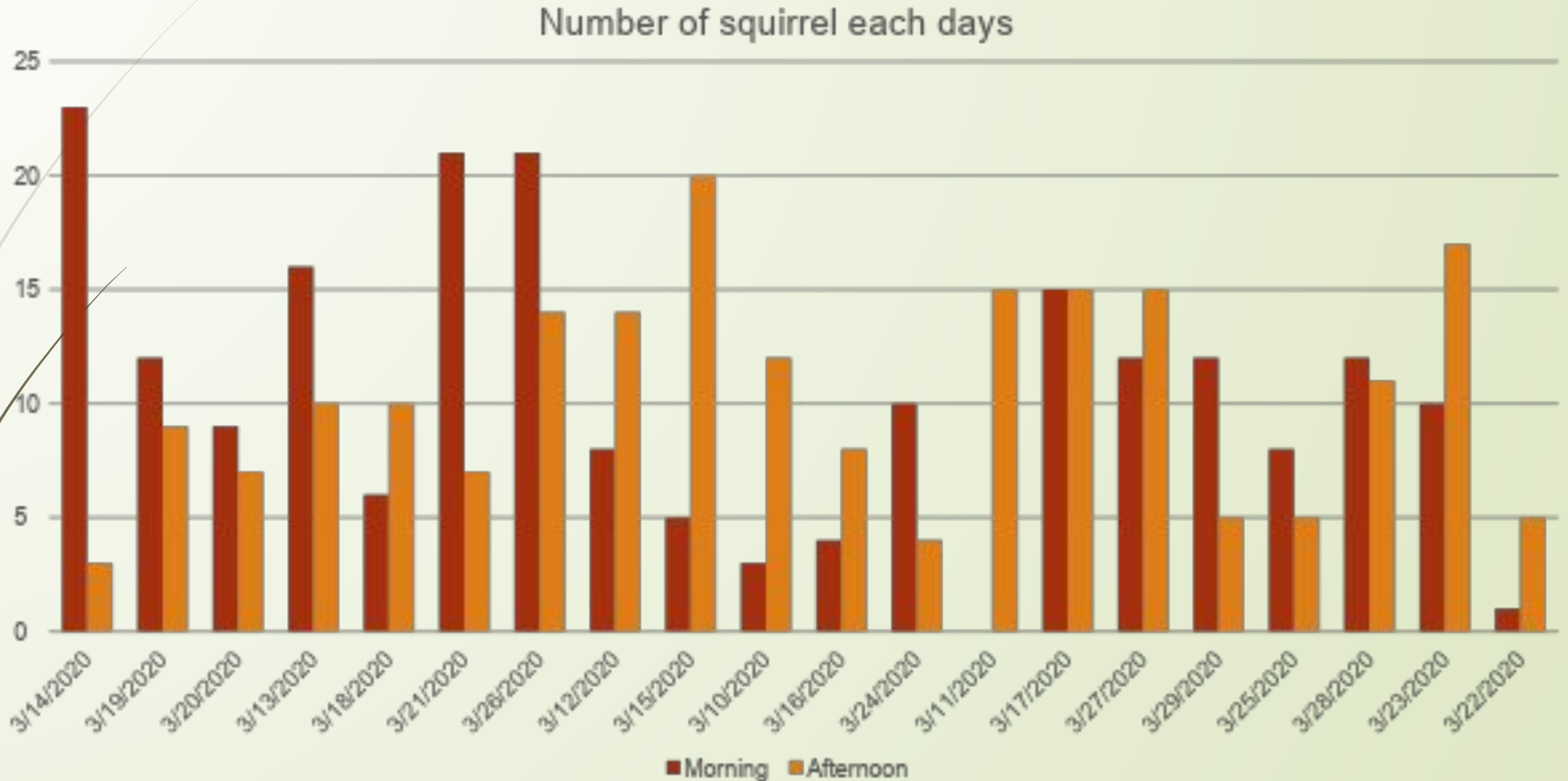



Date	Time	Temperature(C)	Wheather	Number of squirrels
3/20/2020	09:00 morning	5 C	Rainy	4
	05:00 afternoon	7 C	Cloudy	8
3/21/2020	10:00 morning	2 C	Cloudy	10
	06:00 afternoon	5 C	Cloudy	4
3/22/2020	09:00 morning	1 C	Rainy	0
	05:00 afternoon	5 C	Cloudy	15
3/23/2020	09:30 morning	3 C	Cloudy	15
	05:30 afternoon	7 C	Cloudy	15
3/24/2020	10:00 morning	5 C	Cloudy	12
	05:00 afternoon	7 C	Rainy	15



Date	Time	Temperature(C)	Wheather	Number of squirrels
3/25/2020	09:00 morning	7 C	Cloudy	12
	06:00 afternoon	17 C	Sunny	5
3/26/2020	09:00 morning	10 C	Rainy	8
	05:00 afternoon	20 C	Sunny	5
3/27/2020	09:00 morning	18 C	Sunny	12
	05:00 afternoon	27 C	Cloudy	11
3/28/2020	09:30 morning	21 C	Cloudy	10
	06:00 afternoon	22 C	Cloudy	17
3/29/2020	09:00 morning	11 C	Sunny	1
	05:00 afternoon	18 C	Sunny	5

20 days of squirrel observation





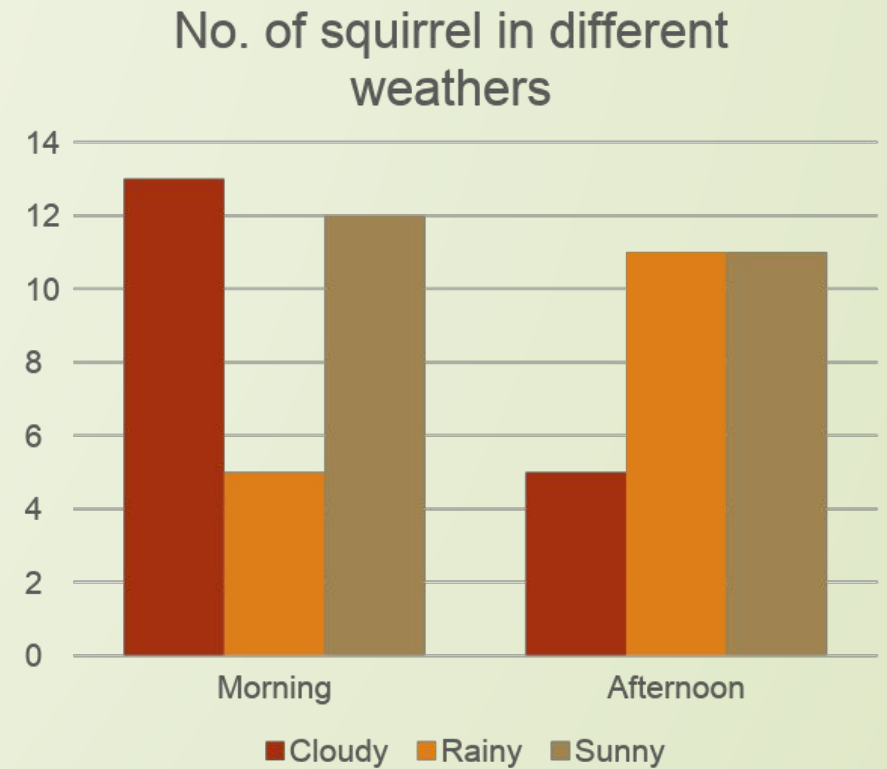
Results



- 20 days of observation
- The average number of squirrel in the morning was 10 squirrels
 - Total number of squirrel in the morning was 208 squirrels
 - The average number of squirrel in the sunny time was 13 squirrels
 - The average number of squirrel in the rainy time was 5 squirrels
 - The average number of squirrel in the cloudy time was 12 squirrels
- The average number of squirrel in the afternoon was 10 squirrels
 - Total number of squirrel in the afternoon was 206 squirrels
 - The average number of squirrel in the sunny time was 5 squirrels
 - The average number of squirrel in the rainy time was 11 squirrels
 - The average number of squirrel in the cloudy time was 11 squirrels

Number of squirrels define by weather types

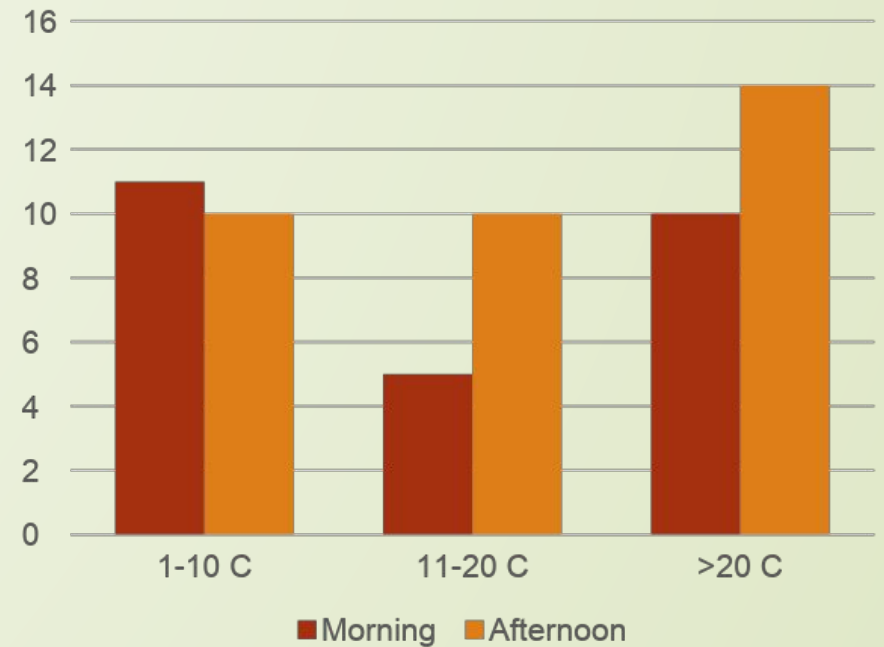
Time	Cloudy	Rainy	Sunny
Morning	13	5	12
Afternoon	5	11	11



Number of squirrels define by temperatures

Temperature (°C)	Morning	Afternoon
1-10	11	10
11-20	5	10
>20	10	14

No. of squirrel in different temperatures





Results



- The average temperature in the morning was
 - The average number of squirrels between 1-10° C was 11 squirrels
 - The average number of squirrels between 11-20° C was 5 squirrels
 - The average number of squirrels more than 20° C was 10 squirrels
- The average temperature in the afternoon was
 - The average number of squirrels between 1-10° C was 10 squirrels
 - The average number of squirrels between 11-20° C was 10 squirrels
 - The average number of squirrels more than 20° C was 14 squirrels



Conclusions



- No difference in number of squirrel between morning and afternoon
- In the morning
 - There were many squirrels in sunny or cloudy days compared to rainy days
 - There were less of squirrel in temperature between 11-20°C
- In the afternoon
 - There were many squirrels in rainy or cloudy days compared to sunny days
 - There were many squirrels in the day that had temperature more than 20°C