

**12.1 Data Collection, Organisation and Representation Process, and Interpretation of Data Rep****12.1.1 Generate statistical questions and collect relevant data.**

Students refer text book page 266

[https://drive.google.com/file/d/1Sf\\_zE5kMmZfPzcvIY4JhqnJWvQmLbBA6/view?usp=sharing](https://drive.google.com/file/d/1Sf_zE5kMmZfPzcvIY4JhqnJWvQmLbBA6/view?usp=sharing)**Complete the table.**

A \_\_\_\_\_ is a question that can be answered by collecting data and there will be variability or diversity in the data related to the question

Example:

Statistical question	Reason
How tall are your family	There is variability in the height of your family, for example, 150 cm, 156 cm, 164 cm and so on.
What is your family favourite food	There is variability in the types of food chosen by your family, for example, <i>nasi lemak</i> , fried noodles, <i>laksa</i> and so on.

Data can be collected by various methods after generating the statistical questions

**DATA COLLECTION METHOD**  
(Line the right answer)



- Interview
- Survey
- Experiment
- Observation



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### 12.1.2. Classify data and construct frequency tables.

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<https://drive.google.com/file/d/1v48vXZml9qD6dE8kqUKbfEoARpVHjQWj/view?usp=sharing>

Data can be classified into categorical data and numerical data after collecting the data.

**Drag and drop the right answer**

Measured numerically	Measures quantity	The number of books read in a week, the height of the badminton players, the time spent on exercise	Cannot be measured numerically but can be described.	Measures characteristic	the gender of a person, colours of cars, flavours of sweets, blood groups
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DATA	
Categorical	Numerical

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Drag and drop the right answer.

Classify the following data as categorical data or numerical data:

Numerical data	Categorical data
Example: The body temperature of each student	Example: The causes of road accidents
Number of stamps each student collects	Time spent on the Internet
Ability to play <i>sepak takraw</i>	Colour of cars
Length of earthworms	Number of tourists visiting the National Museum each month
Language spoken at home	Annual income

Example 2:

The data shows the number of children in each family for 20 families. Organise the data by constructing a frequency table.

2 0 1 1 2 1 3 0 4 3  
2 4 1 0 2 1 0 2 2 3

**Solution**

Number of children	Tally	Frequency
0		
1		5
2	1	
3		3
4		
	<b>Total</b>	

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**EXERCISE:**

2. The data shows the T-shirt size of Form 1 Cekal students. Organise the data by constructing a frequency table.

XL	L	XL	M	M	L	M	L	M
M	M	M	XL	XL	L	XL	L	M
M	L	M	L	L	S	M	M	L

T-shirt size of Form 1 Cekal Students	Frequency
XL	
L	
M	
S	
<b>TOTAL</b>	



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