

**CHAPTER
16****Data Handling****Activity Book p.181****Worksheet A****Investigate with Categorical and Discrete Data****Level 1****Level 2****Level 3**

I Write the letters in the table.

- a How many cartoons do your classmates watch in a week?
- b What do you like to do in your free time?
- c How many pets do you own?
- d What is the favourite subject of the students in your class?

If you are not sure,
you can refer to
Student's Book
pages 226 to 228.



	Categorical Data	Discrete Data
Non-statistical Question	b	c
Statistical Question	d	a

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how many ==> discrete
what ==> categorical

you/ your => non-statistical
classmates/students ==> statistical

Activity Book p.182

2 Use the answers to complete the crossword puzzle.

a What is your favourite toy?

This is a **non-statistical** question.



b How many pages are there in a book?

The data collected to answer this

question is **discrete** data.



c Which is the most popular stall in the canteen?

The data collected to answer this

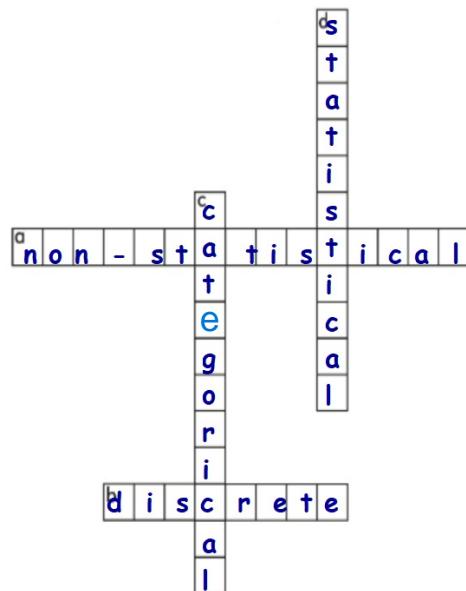
question is **categorical** data.



d How many times do your classmates drink water in a day?

This is a **statistical** question.

d



QUESTION
statistical OR non-statistical

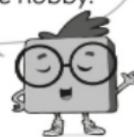
DATA (answer)
discrete OR categorical

Activity Book p.183

3 Write a non-statistical question and a statistical question that collects categorical data.



You can think about your favourite hobby.



Non-statistical:

What is your favourite hobby?

Statistical:

What is the favourite hobby of the students in your class?

non-statistical ==> one answer
statistical ==> many answers

Activity Book p.183

4 Write a non-statistical question and a statistical question that collects discrete data.



You can think about the number of books read in a week.



Non-statistical:

How many books do you read in a week?

What is the difference between non-statistical questions and statistical questions?



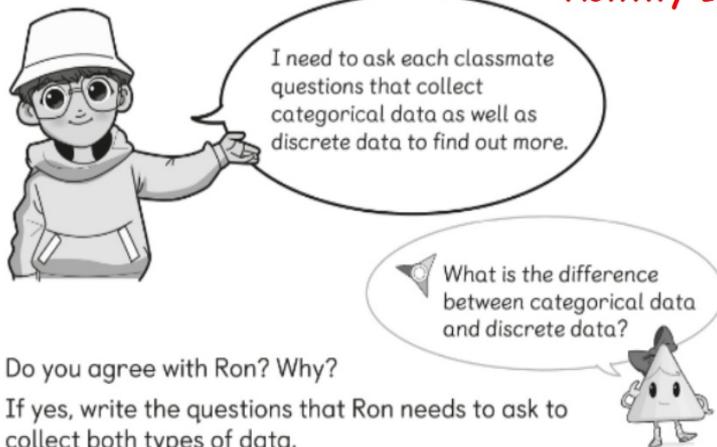
Statistical:

How many books do your classmates read in a week?



5 Ron wants to find out more about the games his classmates play.

Activity Book p.184



Do you agree with Ron? Why?

If yes, write the questions that Ron needs to ask to collect both types of data.

Yes, I agree with Ron because he needs to know what type of games his classmates play as well as how often they play them.

For example, the question to collect discrete data is 'How many times do you play games in a week?'.

The question to collect categorical data is 'What game do you play frequently?'

Categorical data is data based on characteristics while discrete data is data that can be counted.

statistical

non-statistical

more than one answer

only one answer

What is the
favourite color for
all the students ?
(25 answers)

What is the favourite
color for the
teacher?
(1 answer only)

more than
one answer

statistical
question

one answer only

non-statistical
question

categorical → many
word answer

one word
answer

discrete → many
number answer

one number
answer