

Look Back

Student's Book p.226

Caz thinks of two questions.



Which question do you need to collect data for to answer it? **Question 2**
How do you know?

One person can answer question 1 (non-statistical)

the second question needs many answers from different people. (statistical)

The types of pets are not numerical data, but the number of pets is.

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)

Thinking Cap

type

categorical

Student's Book p.226

Caz asks her classmates about their pets and the number of pets they have. number What is the difference between the types of data collected? What makes you say so?



discrete

- What is the difference between the types of data collected?

The types of pets cannot be counted, but the number of pets can be counted.

- What makes you say so?

Caz's classmates can have cats, birds and fish and these types of pets cannot be counted.

But, the number of pets, for example 1 cat, 2 birds and 3 fish, can be counted.

more than
one answer

statistical
question

one answer only

non-statistical
question

different
categorical → **word** answers

one word
answer

discrete → **number**
different
answers

one number
answer

Let's Learn

(a) Buying Fruit

Student's Book p.227

Ron wants to buy some fruit for his family.



Ron's first question has one answer.
It is a non-statistical question.

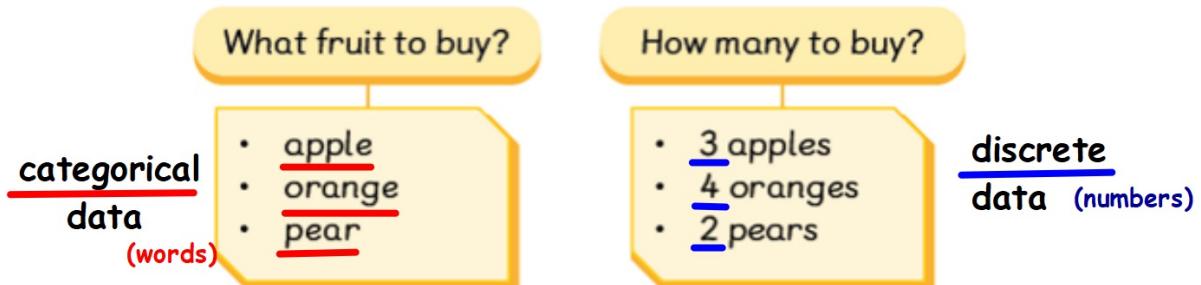
His second question has many answers.
It is a statistical question.

Can you give some examples of statistical questions with your partner?



Student's Book p.227

Ron asks his family what fruit to buy and how many of each to buy. He collects the data as shown.



Ron asks his family some other questions.

- How many eggs should I buy? Answers will be in numbers
- How many table cloths should I buy?

The data collected to answer these questions is **discrete** data because they can be counted.

Let's Practise



I Eddy has two questions.

Circle the type of data he has to collect for the questions.

a Who is the favourite teacher in school?

Categorical

Discrete

b How many words are there in the sentences of children's books?

Categorical

Discrete

Student's Book p.228

2 Kenny wants to find out more about his classmates' hobbies.
What questions can he ask?
Complete the table.

	Categorical	Discrete
Non-statistical question	What is your favourite hobby?	How many times in a week do you engage in your favourite hobby?
Statistical question	What is the favourite hobby of the students in the class?	How many times in a week do your classmates engage in their favourite hobby?

Student's Book p.228

3 The school canteen manager wants to find out the type and number of drinks she needs to order for the students. What questions should she ask?

categorical

What is your favourite drink?

What are the drinks that you will buy from school?

discrete

How many times do you buy a drink from school?

How many times do you buy your favourite drink from school?

	<u>statistical question</u>	<u>non-statistical question</u>
categorical	different word answers	one word answer
discrete	different number answers	one number answer