

## 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)

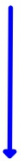
the second question needs many answers from different people. (statistical)

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

statistical



more than one answer



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

non-satistical



only one answer



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

## Thinking Cap



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

category

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type

number

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

different  
discrete → number  
answers

one number  
answer

## Let's Learn

Student's Book p.227

### (a) Buying Fruit

Ron wants to buy some fruit for his family.



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

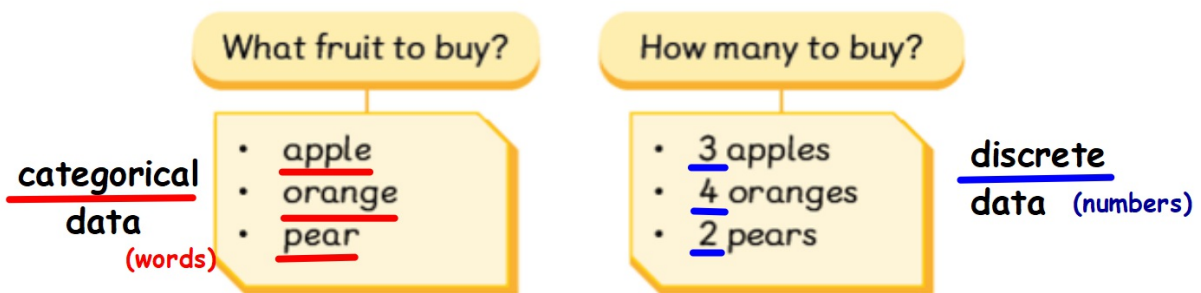
His second question has many answers.  
It is a **statistical question**.

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 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?

statistical  
question

non-statistical  
question

categorical

different  
word answers

one word  
answer

discrete

different  
number  
answers

one number  
answer