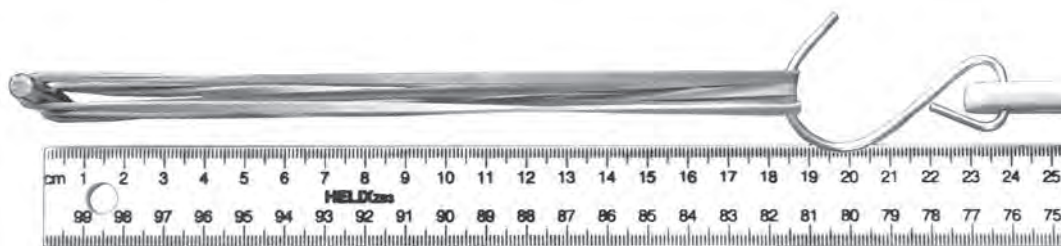


4 A student investigates the stretching of rubber bands.

She stretches four rubber bands as shown in the photograph.



She applies a force of 5.0 N and measures the length of the rubber bands.

She repeats the experiment with different numbers of rubber bands, using a force of 5.0 N each time.

The table shows her results.

Number of rubber bands	Stretched length in cm
1	43.2
2	28.0
3	21.5
4	
5	17.6
6	17.0

(a) (i) Estimate the length of the four rubber bands shown in the photograph and use your value to complete the table.

(1)

(ii) Suggest two reasons why your estimate may not be accurate.

(2)

1

.....

2

.....



(b) Suggest how the student made this investigation a fair test.

(1)

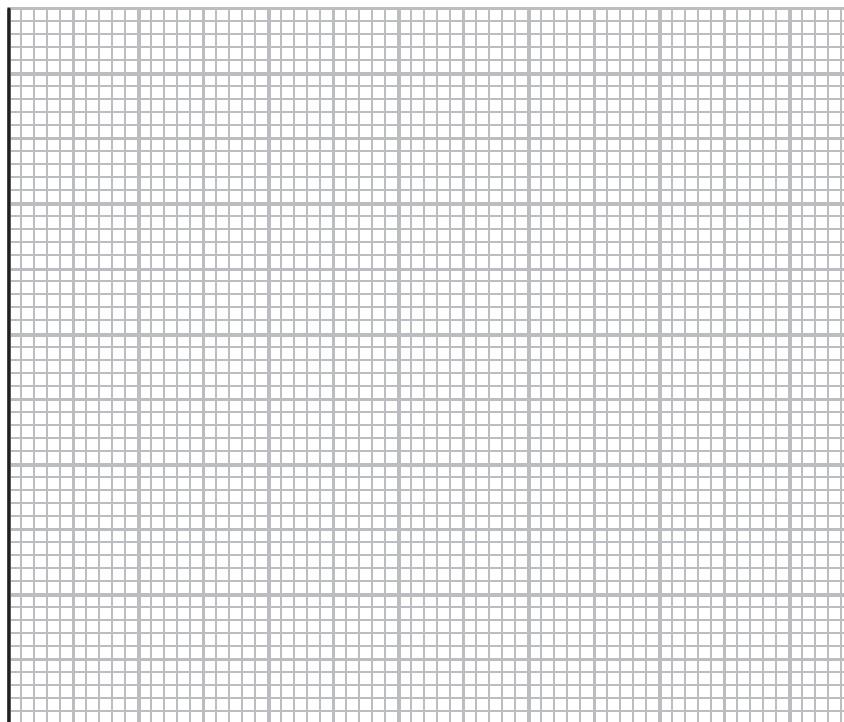
(c) (i) The number of rubber bands is a series of whole numbers.

State the name of this type of variable.

(1)

(ii) Display the results of the student's investigation on the grid.

(4)



(iii) Describe the relationship between the number of rubber bands and the stretched length.

(2)

(Total for Question 4 = 11 marks)

