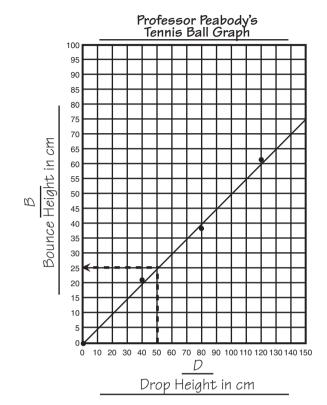
9. Professor Peabody collected the following data for a tennis ball in a Bouncing Ball Experiment. He did three trials and found the mean. Then he graphed his data.

Professor Peabody's Tennis Ball

<i>D</i> Drop Height (in cm)	В			
	Bounce Height (in cm)			
	Trial 1	Trial 2	Trial 3	Mean
40	21	20	22	21
80	39	38	40	39
120	61	65	60	62



- **A.** Complete the function table using Professor Peabody's Drop Heights for input and Bounce Heights for output. Use the graph.
- **B.** Look for a pattern in the data. Describe the pattern in words.
- **C.** Use your pattern to predict the bounce height when the drop height is 200 cm (D = 200 cm).

Input	Output	
D Drop Height (in cm)	B Bounce Height (in cm)	
50		
100		
	75	
D		

D. Show the pattern in symbols in the last line of the table.