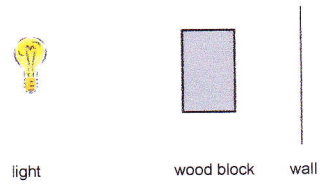
DRAWING GRAPHS 5

A student placed a wooden block between a lamp and a wall. The wooden block caused a shadow on the wall. She investigated how the distance between the wall and the block affected the width of the shadow.

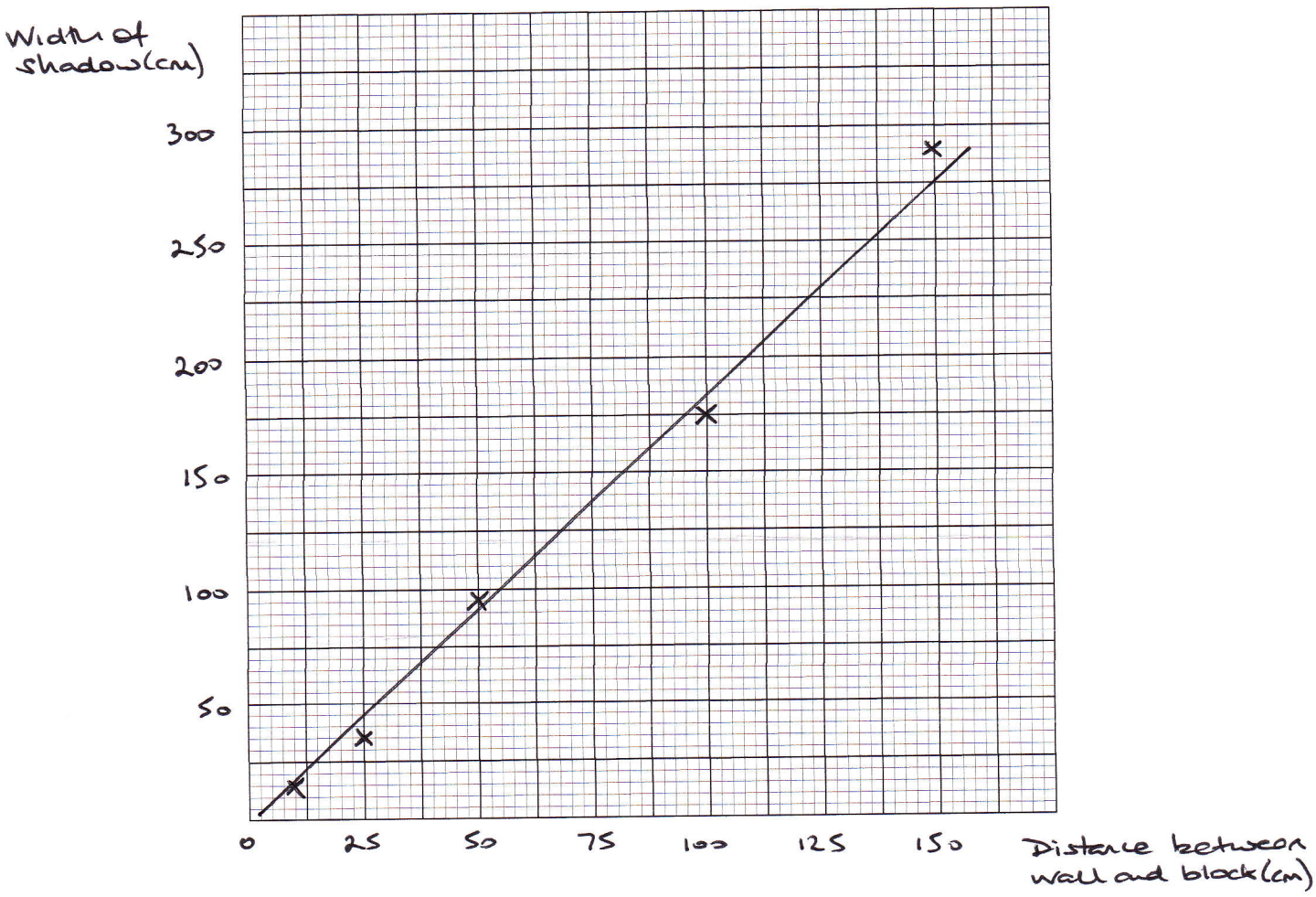


Her results are in the table below.

Distance between the wall and the block (cm)	10	25	50	100	150
Width of shadow (cm)	15	35	95	175	290

Identify the variables and plot a graph of the results.

Independent variable	Dependent variable	Control variables
Distance between wall and block	Width of shadow	• size of block • distance from light to block • the light



Describe the relationship between the variables: .....

The bigger the distance between the wall and the block, the wider the shadow.