0 1

0

0

0

0

0

1

1

1

1

1

4

5

A student is experimenting with a lens in an optics lab. The setup she is using at one point in her investigation is as shown below.



By measuring the sizes of the object and image using the above graph, show that this lens is producing a magnification of 0.5.

[2 marks]

Theory suggest that the magnification of a lens can also be determined by using the following equation:

 $Magnification = \frac{\text{Distance between lens and image}}{\text{Distance between lens and object}}$

Show that a magnification of 0.5 is also calculated using this equation.

[1 mark]



[2 marks]

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