

Teacher Halim asks his pupils to carry out an investigation to investigate how the distance between object and source of light affect the shadow's size. Diagram 1 below shows the arrangement of apparatus for this investigation. The result of the investigation are as in the Diagram 2 below.

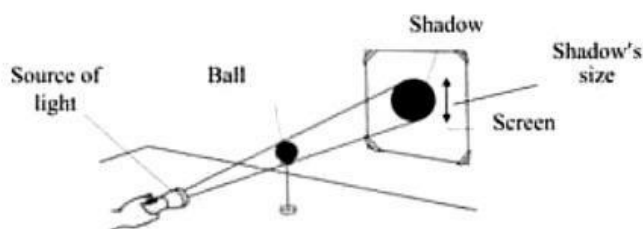


Diagram 1

The size of shadow (cm)

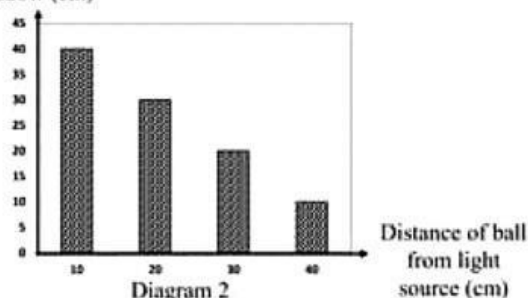


Diagram 2

- What is the aim of this investigation?

 - State the pattern of changes of shadow's size if the distance of the ball from the light source increases.

 - Based on this investigation, state the:

- Manipulated variable: _____
 - Responding variable: _____
- Write one hypothesis based on this investigation.

 - Predict what would happen if the ball is replaced with a transparent glass
