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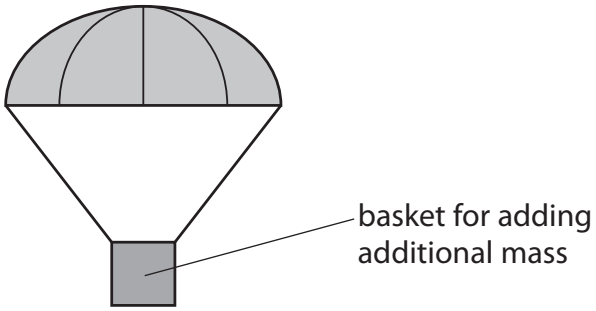
6 A student investigates the motion of different falling masses by measuring the time taken for a toy parachute to fall from a window.



This is the student's method.

- measure the mass of the toy parachute
- drop the toy parachute from the window
- repeat the experiment with additional mass added to the toy parachute
- continue to add mass up to a maximum of six different masses

(a) Describe how the student should measure the time taken for the toy parachute to fall from the window.

(2)

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(b) State the independent and dependent variables in this investigation.

(2)

independent variable .....

dependent variable .....

(c) State one factor that the student should keep constant in order to make his investigation valid (a fair test).

(1)

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