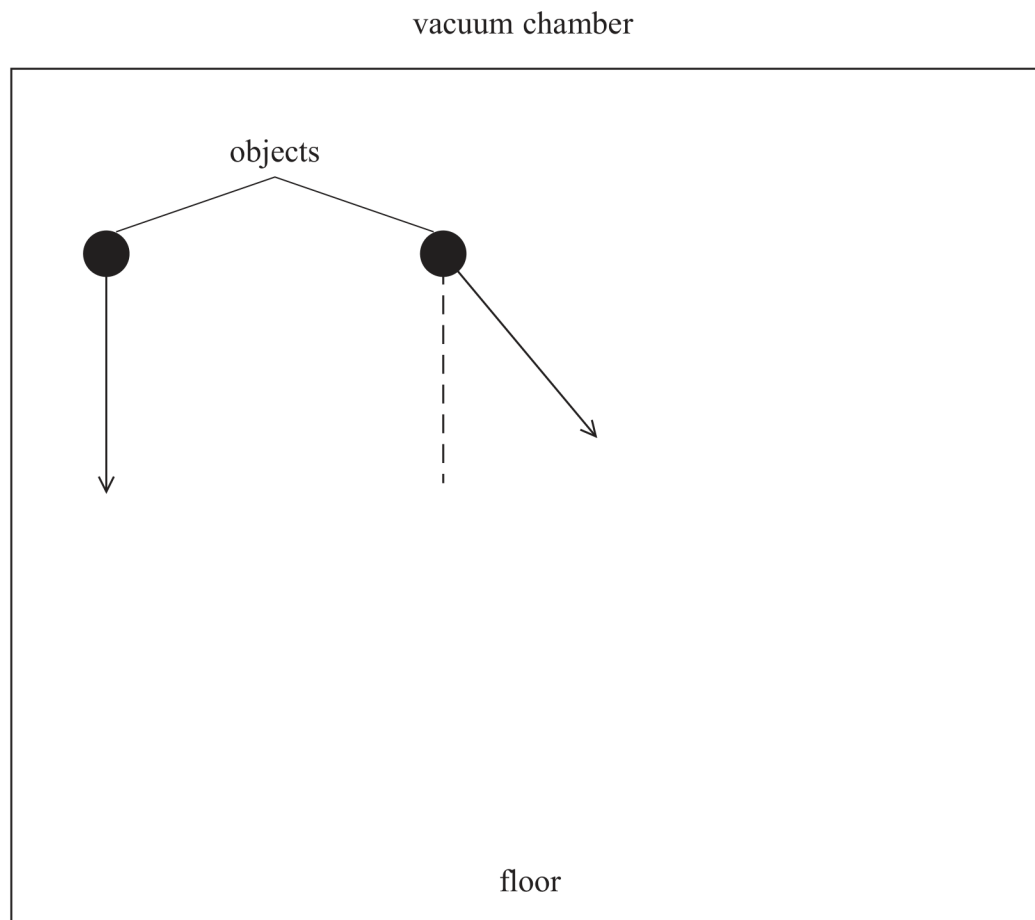


- 7 Two objects with the same initial speed fall from the same height in a vacuum chamber, as shown. The arrows in the diagram show initial directions of travel of the objects.



Which of the following quantities are **not** the same for both objects?

- ☐ A The accelerations of the objects during the fall.
- ☐ B The velocities of the objects as they reach the floor.
- ☐ C The increase in the speeds of the objects during the fall.
- ☐ D The kinetic energies of the objects as they reach the floor.

(Total for Question 7 = 1 mark)