

- 15** For a spacecraft of mass m to just escape Earth's gravitational field, it needs to be traveling at a speed v away from the Earth which is known as the escape speed.

Which statement is correct?

- A** v does not depend on m but depends on the direction in which it is traveling.
- B** v does not depend on m and does not depend on the direction in which it is traveling.
- C** v depends on m but does not depend on the direction in which it is traveling.
- D** v depends on both m and the direction in which it is traveling.

