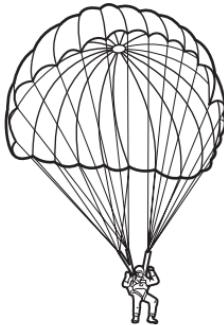
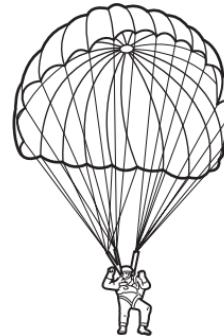


- 9 The diagram shows two parachutists, X and Y, moving vertically downwards.

X



Y



The total mass of parachutist Y and his parachute is twice the total mass of parachutist X and his parachute. At this moment, the air resistance on parachute Y is twice the air resistance on parachute X. Neither parachutist has reached his constant (terminal) velocity.

Which statement describes the acceleration of Y compared with the acceleration of X?

- A The acceleration of Y is half the acceleration of X.
- B The acceleration of Y is the same as the acceleration of X.
- C The acceleration of Y is more than the acceleration of X, but less than twice the value.
- D The acceleration of Y is twice the acceleration of X.