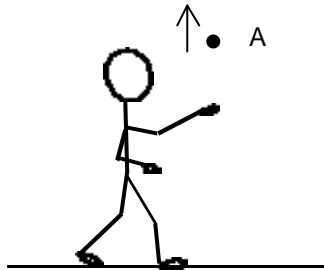


7

Jan throws a tennis ball straight up into the air for a short distance and catches it when it comes down again.

Think about the ball when it is at A, on the way up to its highest point.

- highest point



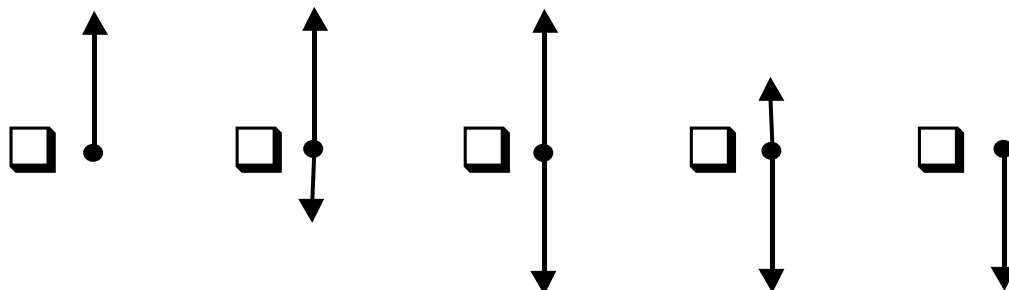
(a) How would you describe the motion of the ball at the point A?

Tick ONE box (✓)

- It is getting faster.
- It is moving at a steady speed.
- It is slowing down.

(b) Which of the following diagrams best shows the **vertical** forces on the ball at point A? (Ignore any horizontal forces.)

Tick ONE box (✓)



(c) What vertical forces are acting on the ball when it is at A, on the way up?

Tick ONE box (✓)

- The only force on the ball is the upwards force from Jan's throw.
- The only force on the ball is the force of gravity.
- There are two forces on the ball: the force of gravity and the air resistance.
- There are three forces on the ball: the force of gravity, air resistance and the force of the throw.
- None of these. The forces acting are: _____

