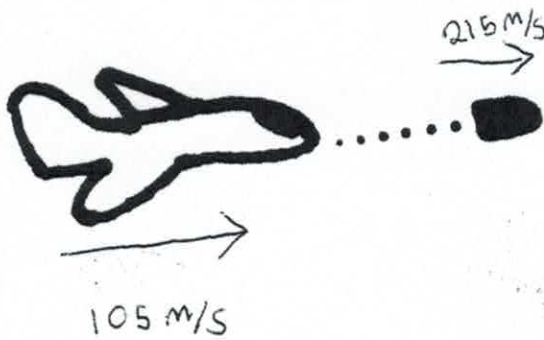


Tension on person : F_1
 Tension on block : F_3
 Friction on person : F_4
 Friction on block : F_2

② Fighter plane.



$$V_{BE} = V_{BT} + V_{TE}$$

Know: $V_{BT} = 215 \text{ m/s}$ Want: ?

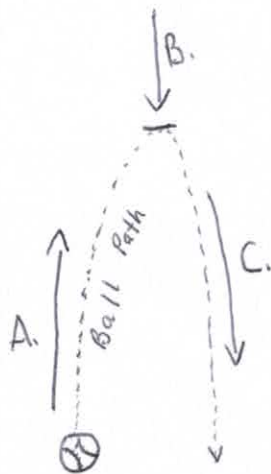
$$V_{TE} = 105 \text{ m/s}$$

$$215 + 105 = V_{BE}$$

$$320 = V_{BE}$$

$$V_{BE} = 320 \text{ m/s}$$

③ Ball.



At A as the ball is going into the air velocity is up.

At B as the ball is at its highest point velocity is Zero.

At C as the ball is on its way back down velocity is Down.

Answer: B