6   A hot-air balloon is moving vertically upwards with a constant speed of $3.00\,\mathrm{m\,s^{-1}}$. A sandbag is dropped from the balloon. It takes $5.00\,\mathrm{s}$ for the sandbag to fall to the ground.

What was the height of the balloon when the sandbag was released?

A   29 m   **B**   108 m   **C**   123 m   **D**   138 m