

Question #63192, Physics / Other

An object falls from a high building. Ignoring air resistance, what will its velocity be after 6 seconds of falling?

Solution

In a free fall motion, $v = v_0 + gt$

Since the object is falling from rest, $v_0 = 0$.

$$v(6) = 9.81 \times 6 = 58.86 \text{ m/s}$$

Answer: 58.86 m/s.

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