

Dionte is riding the Giant Drop at Great America. If Dionte free-falls for 2.6 second. What will be his final velocity.

Solution:

Velocity at the free falling is:

$$v = gt, \text{ where } g - \text{accelaration of free falling } g = 9.8 \text{ m/s}^2$$

$$v = 9.8 * 2.6 = 25.48 \text{ m/s}$$

Answer: the final velocity will be 25.48 m/s.