## Question#14824

Chelsea went for a walk. At the beginning of her walk, she was traveling 2.3 m/s. Then she began to jog to reach a maximum speed of 4.2 m/s over a 15 second period. Assume that Chelsea's acceleration was constant.

Solution:

Let: v1 = 2.3 m/s v2 = 4.2 m/s t = 15 s  $a = \frac{v2 - v1}{t};$  $a = \frac{4.2 - 2.3}{15} = 0.13 m/s^{2}$