Problem 36

What is the height in meters of a person who is 6 ft 1.0 in. tall?

Solution

Convert the given height to feet and then to meters by multiplying by the appropriate conversion factors. 1.6×1.6

$$6 \text{ ft} + 1.0 \text{ in.} = 6 \text{ ft} + 1.0 \text{ jn} \times \frac{1 \text{ ft}}{12 \text{ jn}} = \left(6 + \frac{1.0}{12}\right) \text{ ft} \times \frac{381 \text{ m}}{1250 \text{ ft}} \approx 1.9 \text{ m}$$