A person has a height of 5 feet 7 1/2 inches and has a weight of 145 1/4 lbs. express his height in cm and weight in kilograms. Please show your work

Solution:

$$1 \, feet = 12 \, inch$$

$$5 \, feet = 60 \, inch$$

$$1 \, inch = 0.0254 \, m = 2.54 \, cm$$

$$5 \, feet \, 7\frac{1}{2} \, inches = (60 + 7.5) \, inches = 67.5 * 2.54 \, cm = 171.45 \, cm$$

$$1 \, lbs = 0.454 \, kg$$

$$145\frac{1}{4} \, lbs = 145.25 * 0.454 \, kg = 65.94 \, kg$$

Answer: $171.45 \, cm, \ 65.94 \, kg$