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$$(a) \ m = \frac{W}{g} = \frac{3600}{32.2} = \underline{111.8 \text{ slugs}}$$

$$(b) \ W = 3600 \text{ lb} \left[\frac{4.4482 \text{ N}}{\text{lb}} \right] = \underline{16\ 010 \text{ N}}$$

$$(c) \ m = \frac{W}{g} = \frac{16\ 010}{9.81} = \underline{1632 \text{ kg}}$$

$$\left(\text{or } m = 111.8 \text{ slugs} \left[\frac{14.594 \text{ kg}}{\text{slug}} \right] = 1632 \text{ kg} \right)$$