

Problem 1-11

Represent each of the following with SI units having an appropriate prefix: (a) 8653 ms, (b) 8368 N, (c) 0.893 kg.

Solution**Part (a)**

$$8653 \cancel{\text{ms}} \times \frac{1 \text{ s}}{1000 \cancel{\text{ms}}} = 8.653 \text{ s}$$

Part (b)

$$8368 \cancel{\text{N}} \times \frac{1 \text{ kN}}{1000 \cancel{\text{N}}} = 8.368 \text{ kN}$$

Part (c)

$$0.893 \cancel{\text{kg}} \times \frac{1000 \text{ g}}{1 \cancel{\text{kg}}} = 893 \text{ g}$$