

## Problem 1-5

Represent each of the following as a number between 0.1 and 1000 using an appropriate prefix:  
(a) 45 320 kN, (b)  $568(10^5)$  mm, and (c) 0.00563 mg.

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### Solution

#### Part (a)

$$45\,320 \text{ kN} = 45.320 \text{ MN}$$

#### Part (b)

$$568(10^5) \text{ mm} = 568(10^2) \text{ m} = 56.8 \text{ km}$$

#### Part (c)

$$0.00563 \text{ mg} = 5.63 \mu\text{g}$$