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so many fake sites. this is the first one which worked! Many thanks

INTRODUCTION to BIOMECHANICS for HUMAN MOTION ANALYSIS,  
SECOND EDITION

SOLUTIONS to ODD-NUMBERED PROBLEMS  
by  
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INTRODUCTION (p. 12)

Conversion factors are taken from Table 1.3 on page 8.

1.
  - (a)  $350 \times 0.4536 = 9.81 = 1557 \text{ N}$
  - (b)  $6.50 / 0.4536 = 14.33 \text{ lbs.}$
  - (c)  $168.5 \times 2.54 = 428 \text{ cm}$
  - (d)  $(10 \times 100) / 2.54 = 394 \text{ inches}$
  - (e)  $70 \frac{\text{miles}}{\text{hour}} \times \frac{1,609 \text{ km}}{1 \text{ mile}} \times \frac{1 \text{ hour}}{3600 \text{ s}} \times \frac{1000 \text{ m}}{1 \text{ km}} = 31.3 \text{ m/s}$
  - (f)  $80 \frac{\text{miles}}{\text{hour}} \times \frac{1,609 \text{ km}}{1 \text{ mile}} = 128.7 \text{ m/s}$
  - (g)  $8.35 \times 12 \times 2.54 = 255 \text{ cm}$
  - (h)  $440 \times 0.9144 = 402 \text{ m}$
  - (i)  $(800 / 0.9144) \times 3 = 2620 \text{ feet}$
  - (j)  $50.0 \times 1,609 = 80.5 \text{ km}$
  - (k)  $25.0 / 1,609 = 15.54 \text{ miles}$
  - (l)  $3.00 \times 9.81 = 29.4 \text{ newtons}$
3.
  - $250 \frac{\text{lbs.}}{1 \text{ lb.}} \times \frac{0.4536 \text{ kg}}{1 \text{ lb.}} = 113.4 \text{ kg}$
  - $W = mg = 113.4 \times 9.81 = 1112.5 \text{ N}$
  - Thus, the 1200 N person weighs more than the 250 lbs. person.
5.
  - $45 \text{ ft.} = 45 \times 12 = 540 \text{ in.} = 540 \times 2.54 = 1371.6 \text{ cm} = 13.716 \text{ m}$
  - Thus, 13.75 m is longer than 45 feet.

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