

## Chapter 4 continued

- 14. Critical Thinking** A force of 1 N is the only force exerted on a block, and the acceleration of the block is measured. When the same force is the only force exerted on a second block, the acceleration is three times as large. What can you conclude about the masses of the two blocks?

Because  $m = F/a$  and the forces are the same, the mass of the second block is one-third the mass of the first block.

## Practice Problems

### 4.2 Using Newton's Laws pages 96–101

page 97

- 15.** You place a watermelon on a spring scale at the supermarket. If the mass of the watermelon is 4.0 kg, what is the reading on the scale?

The scale reads the weight of the watermelon:

$$F_g = mg = (4.0 \text{ kg})(9.80 \text{ m/s}^2) = 39 \text{ N}$$

- 16.** Kamaria is learning how to ice-skate. She wants her mother to pull her along so that she has an acceleration of  $0.80 \text{ m/s}^2$ . If Kamaria's mass is 27.2 kg, with what force does her mother need to pull her? (Neglect any resistance between the ice and Kamaria's skates.)

$$F_{\text{net}} = ma = (27.2 \text{ kg})(0.80 \text{ m/s}^2) = 22 \text{ N}$$

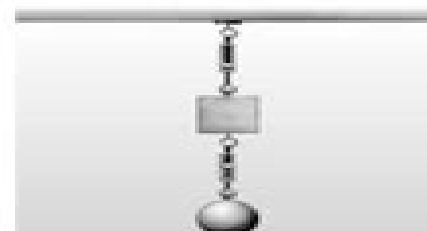
- 17.** Taru and Reiko simultaneously grab a 0.75-kg piece of rope and begin tugging on it in opposite directions. If Taru pulls with a force of 16.0 N and the rope accelerates away from her at  $1.25 \text{ m/s}^2$ , with what force is Reiko pulling?

Identify Reiko's direction as positive and the rope as the system.

$$F_{\text{net}} = F_{\text{Reiko on rope}} - F_{\text{Taru on rope}} = ma$$

$$\begin{aligned} F_{\text{Reiko on rope}} &= ma + F_{\text{Taru on rope}} \\ &= (0.75 \text{ kg})(1.25 \text{ m/s}^2) + \\ &\quad 16.0 \text{ N} \\ &= 17 \text{ N} \end{aligned}$$

- 18.** In Figure 4-8, the block has a mass of 1.2 kg and the sphere has a mass of 3.0 kg. What are the readings on the two scales? (Neglect the masses of the scales.)



■ Figure 4-8

**Bottom scale:** Identify the sphere as the system and up as positive.

$$F_{\text{net}} = F_{\text{scale on sphere}} -$$

$$F_{\text{Earth's mass on sphere}} = ma = 0$$

$$\begin{aligned} F_{\text{scale on sphere}} &= F_{\text{Earth's mass on sphere}} \\ &= m_{\text{sphere}}g \end{aligned}$$

$$\begin{aligned} &= (3.0 \text{ kg})(9.80 \text{ m/s}^2) \\ &= 29 \text{ N} \end{aligned}$$

**Top scale:** Identify the block as the system and up as positive.

$$F_{\text{net}} = F_{\text{top scale on block}} -$$

$$F_{\text{bottom scale on block}} -$$

$$F_{\text{Earth's mass on block}}$$

$$= ma = 0$$

$$\begin{aligned} F_{\text{top scale on block}} &= F_{\text{bottom scale on block}} + \\ &\quad F_{\text{Earth's mass on block}} \\ &= F_{\text{bottom scale on block}} + \\ &\quad m_{\text{block}}g \\ &= 29 \text{ N} + (1.2 \text{ kg}) \\ &\quad (9.80 \text{ m/s}^2) \\ &= 41 \text{ N} \end{aligned}$$

# Forces In One Dimension Study Guide Answers

**Terry C. Jones**



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