

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 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 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.

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

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

$$\begin{aligned} F_{\text{scale on sphere}} &= F_{\text{Earth's mass on sphere}} \\ &= m_{\text{sphere}}g \\ &= (3.0 \text{ kg})(9.80 \text{ m/s}^2) \\ &= 29 \text{ N} \end{aligned}$$

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

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

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

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

$$= ma = 0$$

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

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web transcription is an essential step in using the information from genes in our dna to make proteins proteins are the key molecules that give cells structure and keep them running blocking transcription with mushroom toxin causes liver failure and death because no new rnas and thus no new proteins can be made 2

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web genes encode proteins and the instructions for making proteins are decoded in two steps first a messenger rna mrna molecule is produced through the transcription of dna and next the mrna

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web proteins and of rna molecules involved in protein synthesis gene expression the process by which dna directs protein synthesis includes two stages called transcription and translation concept 17 1 genes specify proteins via transcription and translation the study of metabolic defects provided evidence that genes specify proteins

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web structure thus a gene determines primary structure and primary structure determines shape and shape answer key name key ch 14 gene expression from gene to protein key concepts genes specify proteins via transcription and translation transcription is the