#### Answer Key • Lesson 8: Workshop: Multiplication Strategies



\*Answers and/or discussion are included in the lesson.

I

### **Lesson 8: Workshop: Multiplication Strategies**

∎5.	A total of 546 riders are signed up for the bike-a-thon this year. Last year, a typical rider raised between \$750 and \$1375. Estimate how much money the bike-a-thon might raise this year.	
●6.	At last year's bike-a-thon, Ana's pledges totaled \$43 per mile, but the course was only 19 miles long. How much money did Ana raise last year?	
■7.	After this year's ride, Ana will send thank-you letters and collection envelopes to everyone on the list including her parents. Each collection envelope will need a stamp on it, and each letter will have to be stamped too. If Ana uses first-class stamps, how much will Ana spend on stamps?	
*●8.	<ul> <li>Four water stations are being set up along the course. The organizer of the bike-a-thon wants to have enough water so that each of the 546 riders can have one bottle of water at each station.</li> <li>A. If you were going to estimate the number of bottles needed, should your estimate be higher or lower than the actual number?</li> <li>B. Based on your answer to Question A, estimate the number of bottles to buy.</li> </ul>	
*●9.	A food store donated 86 boxes of energy bars to give to riders at the rest stations. There are 32 energy bars in each box. How many bars did the store donate?	
■10.	<ul> <li>Ana once counted the number of times her feet went around with the pedals while riding her bicycle. When her bicycle was in fifth gear, her feet went around 58 times for 1/8 of a mile.</li> <li>A. About how many times will her feet go around for each mile she rides using the same gear?</li> <li>B. Estimate how many times her feet will go around the pedals if she used the same gear for the whole bike-a-thon.</li> </ul>	Copyright © Kendall Hunt Publishing Company
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Jacket Orders					
	Size	Price	Number Ordered	Cost	
	Small	\$10	75		
	Medium	\$12	95		
	Large	\$13	105		
	Extra Large	\$15	85		
	TOTAL				
		KEEP ON P GO RIDI	EDALING!		
★●■13. To ge granc is 6 n A. H B. H gr	t ready for the Imother's hous illes one way. ow many miles ow many miles andmother's t	bike-a-thon, A se twice a wee s does Ana rid s would Ana rid wice every we	Ana rides back k. The ride to I e every week? de in a year if s ek?	and forth to h her grandmoth she kept riding	

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- **5.** Estimates will vary. Possible response:  $\$1000 \times 546 = \$546,000$
- **6.** \$817
- 7. Answers will vary based on the cost of a stamp. At \$.44 per stamp, postage costs would be  $22 \times \$.44 = \$9.68$ .
- 8. A. higher
  - **B.** Estimates may vary.  $550 \times 4 = 2200$  bottles of water
- **9.** 2752 energy bars
- **10. A.** 464 times
  - **B.** Estimates may vary. About 12,000 times

Π.	\$750
	\$1140
	\$1365
	+ \$1275
	\$4530

- **12.** \$1310
- **13. A.** 24 miles
  - **B.** 1248 miles

## Answer Key • Lesson 8: Workshop: Multiplication Strategies

- 14.  $15 \text{ cm} \times 3 \text{ cm} \times 7 \text{ cm} = 315 \text{ cm}^3$ ;  $315 \text{ cm}^3 \times 2 = 630 \text{ cm}^3$
- **15.** 936 cm<sup>3</sup>









16. 729 cm<sup>3</sup>
17. A. 448 cm<sup>3</sup>
B. 10 m
C. 7 ft.
D. 0.5 m

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## **Lesson 8: Workshop: Multiplication Strategies**



- **18.** The box with dimensions  $22 \text{ cm} \times 10 \text{ cm} \times 5 \text{ cm} = 1100 \text{ cm}^3$ .
- **19.** 39 cm

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20. 2 cm
21. A. 60 cm<sup>3</sup>
B. 360 cm<sup>3</sup>

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# Answer Key • Lesson 8: Workshop: Multiplication Strategies

#### **22. A.** 64 cm<sup>3</sup>

- **B.** 2064 cm<sup>3</sup> 64 cm<sup>3</sup> = 2000 cm<sup>3</sup>
- **C.** 2000 cm<sup>3</sup>  $\div$  80 cm<sup>2</sup> = 25 cm
- **23.\*** 4 cm



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