

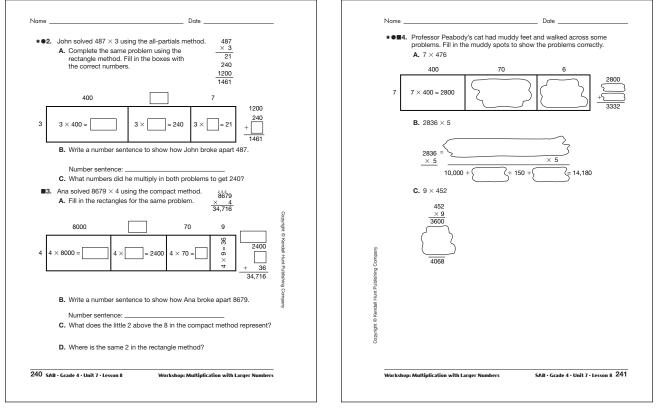
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# Student Activity Book

# **Practicing Multiplication Strategies**

## Questions 1-16 (SAB pp. 239-246)

- **I. A.** 30; 2000; 36
  - **B.** 539 = 500 + 30 + 9
  - **C.** 4 and 500;  $4 \times 500 = 2000$
- **2. A.** 80; 1200; 80; 7; 21
  - **B.** 487 = 400 + 80 + 7
  - **C.** 3 and 80;  $3 \times 80 = 240$
- **3. A.** 600; 32,000; 600; 280; 32,000; 280
  - **B.** 8679 = 8000 + 600 + 70 + 9
  - **C.** It represents 2 thousands that were carried over by multiplying  $4 \times 600 = 2400$  and adding the carried over 300.
  - **D.** In the box where 4 and 600 are multiplied to get 2400.
- **4.** A.  $7 \times 70 = 490$ ;  $7 \times 6 = 42$ ; 490; 42
  - **B.** 2000 + 800 + 30 + 6; 4000; 30
    - **C.** 450, 18



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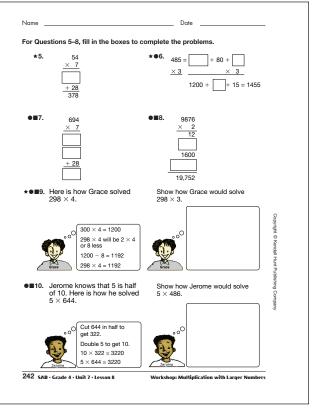
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#### Answer Key • Lesson 8: Workshop: Multiplication with Larger Numbers

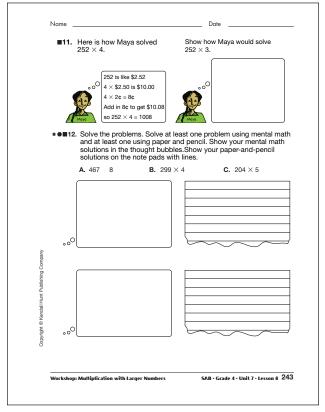
- **5.** 350
- **6.** 400; 5; 240
- 7. 4200; 630; 4858
- 8. 140; 18,000
- 9.  $300 \times 3 = 900.$   $298 \times 3$  will be  $2 \times 3$  or 6 less. 900 - 6 = 894.  $298 \times 3 = 894$
- **10.** Cut 486 in half to get 243. Double 5 to get 10.  $10 \ge 243 = 2430.5 \le 486 = 2430.$
- **11.** 252 is like \$2.52.  $3 \times$  \$2.50 is \$7.50.  $3 \times 2\phi = 6\phi$ . Add in  $6\phi$  to get \$7.56. So  $252 \times 3 = 756$ .
- **12.** Paper-and-pencil and mental math strategies will vary.
  - **A.** 3736; Possible paper-and-pencil strategy:

$$\frac{467}{\times 8} = \frac{400 + 60 + 7}{3200 + 480 + 56} = 3736$$

- B. 1196; Possible mental math strategy: 4 × 300 = 1200. 299 is one less than 300. 4 × 1 = 4. 1200 - 4 = 1196. 4 × 299 = 1196
- **C.** 1020; Possible mental math strategy: 204 is like  $2.04.5 \times 2.00 = 10.00$ .  $5 \times 4\phi = 20\phi$ . Add 20¢ to get 10.20, so  $204 \times 5 = 1020$ .

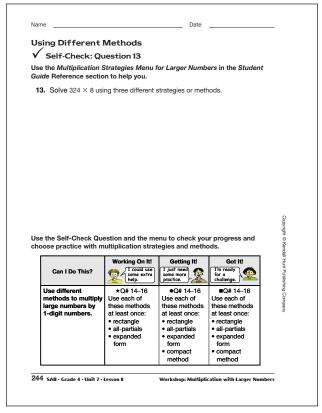


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13. Strategies and methods will vary. Some possible responses:

	300	20	4
4	1200	80	16
4	1200	80	16
	2400 + 160 + 32 = 2592		
$\frac{\times}{2}$	324 $ $		
	$300 + 20 + 4 \times 8$		
24	400 + 160 + 32 = 2592		

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Methods and strategies will vary. One possible method is given for each problem. Look for evidence that students are choosing strategies that "fit" the problem.

**14. A.** 240;  $10 \times 48 = 480$  $480 \div 2 = 240$ **B.** 2036; 500  $\times$  4 = 2000;  $9 \times 4 =$ 36; 2000 + 36 = 2036C. 7578; 842  $\times 9$ 18 360 7200 7578 **D.** 3858; 600 + 40 + 3 $\times 6$ 3600 + 240 + 18 = 3858**E.** 2772; 924  $\times 3$ 2772 **F.** 2784:  $300 \times 8 = 2400$  $50 \times 8 = 400$ 2800  $2 \times 8 = 16$ - 16 2784 **G.** 1340;  $268 \times 10 = 2680$  $2680 \div 2 = 1340$ **H.** 49,448; 7064  $\times 7$ 28 420 49,000 49,448 15. Answers will vary. A possible solution for Question 14A:  $5 \times 50 = 250;$  $5 \times 2 = 10;$ 250 - 10 = 24016. Answers will vary. A possible solution for Question 14H:  $7 \times 7000 = 49,000$ The answer should be a few hundred more than 49,000.

Name _		Date		
★●■14	. Choose your own strategies and methods to solve the following problems. Remember to estimate to check that your answers are reasonable.			
	<b>A.</b> 5 × 48	<b>B.</b> 4 × 509		
	<b>C.</b> 842 × 9	<b>D.</b> 6 × 643		
Aud	<b>E.</b> 3 × 924	<b>F.</b> 348 × 8		
Co pyright © Kendall Hunt Publishing Company	<b>G.</b> 268 × 5	<b>H.</b> 7064 × 7		
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Name _	Date	
★●■15.	Choose a problem from the ones you just so you could solve it using mental math.	lved and show how
★●■16.	Choose a different problem and show your e Was your answer reasonable? Why or why n	
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	Multiplication Digits Game with a partner or f using place value concepts to multiply.	amily member to
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