10. $-1 \cdot (-9)$ ____ **11.** $-4 \cdot (-3)$ ____ **12.** $2 \cdot (-4)$ ____

- **13.** The temperature is dropping 2°F every day. Write a multiplication expression to model how much the temperature will drop in 5 days.
- 14. The value of Tom's stock went down about \$3 every hour today. Write a multiplication expression to model how much the value of Tom's stock decreased in 8 hours.

11-6 Multiplying Integers	11-6 Multiplying Integers		
Write the multiplication modeled.	Write the sign of each product.		
	1.7•8 2.5•(-9) 3	-4 • 12	
	positive negative	negative	
	4 -6 • (-11) 5 -3 • 8 6 -	-12 • (-18)	
	positive negative	positive	
$4 \cdot 2$ $2 \cdot (-3)$			
Circle the letter of the correct answer.	Find each product.		
3. What does 3 • (-2) mean? 4. What does -4 • (5) mean?	7. 5 • (-7) <u>-35</u> 8. -4 • 3 <u>-12</u> 9. -	-8 • (-2) <u>16</u>	
A 3 groups of 2 F 4 groups of 5			
(B) 3 groups of -2 G 4 groups of -5 (B) the expectite of 4 groups of 5	10. -9 • (-1) <u>9</u> 11. 5 • (-6) <u>-30</u> 12. -	-10 • (-4) <u>40</u>	
D the opposite of 3 groups of -2 I the opposite of 4 groups of -5			
	13 . 6 • (-8) <u>-48</u> 14 . 0 • (-3) <u>0</u> 15 . 7	• (-9)	
 5. Which product is negative? 6. Which product is positive? 6. Which product is positive? 			
B $-7 \cdot (-6)$ G $-6 \cdot 7$	Evaluate 4 <i>n</i> for each value of <i>n</i> .		
C $-3 \cdot (-4)$ (H) $-6 \cdot (-9)$	16. $n = 2$ <u>8</u> 17. $n = -4$ <u>-16</u> 18. n	r = -7 -28	
(D) 2 • (−10) J 12 • (−5)			
Match each multiplication expression to its product below.	19. $n = -3$ <u>-12</u> 20. $n = 11$ <u>44</u> 21. n	e = 0	
A12 D. 0 03 D. 12 L. 3 10	Evaluate $-3n$ for each value of n.		
74 • (-2) <u>B</u> 8. 3 • (-3) <u>C</u> 96 • 2 <u>A</u>	22, n = -5 15 $23, n = 0$ 0 24, n	= 6 - 18	
		0	
10. $-1 \cdot (-9)$ <u>E</u> 11. $-4 \cdot (-3)$ <u>D</u> 12. $2 \cdot (-4)$ <u>F</u>	25 n 8 24 26 n - 7 - 21 27 n	1 3	
13. The temperature is dropping 2°F 14. The value of Tom's stock went down			
every day. Write a multiplication about \$3 every hour today. Write a	28. Last month, Tyler made five 29. The Atlantic Oc withdrawals of \$25 each from his 4 inches every	cean is sinking	
expression to model how much the multiplication expression to model temperature will drop in 5 days how much the value of Tom's stock	bank account and no deposits. What multiplication e:	xpression that models	
decreased in 8 hours.	multiplication expression models how much the /	Atlantic Ocean will	
$5 \cdot (-2)$ <u>$8 \cdot (-3)$</u>	will it sink in the	at time?	
	5 • (-25) 3 • (-4); 12 i	nches	
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LESSON Practice C LESSON Multiplying Integers Use each set of integers to write two expressions, one with a positive product and one with a negative product. Possible answers are given	Reteach Multiplying Integers You can use two-color counters to multiply integers.		
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Lisson Practice C Lisson Multiplying Integers Use each set of integers to write two expressions, one with a positive product and one with a negative product. Possible answers are given 1. $-3, 2, -4$ 2. $8, -4, 5$ 3. $-1, -9, 7$ $-3 \cdot (-4)$; $8 \cdot 5$; $-3 \cdot 2$ $8 \cdot (-4)$ $-1 \cdot 7$	TESSON Reteach Tesson Multiplying Integers You can use two-color counters to multiply integers. Image: Constraint of the		
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Tresson Practice C Itessee Use each set of integers to write two expressions, one with a positive product and one with a negative product. Possible answers are given 1. $-3, 2, -4$ 2. $8, -4, 5$ 3. $-1, -9, 7$ $-3 \cdot (-4)$; $8 \cdot 5$; $-1 \cdot (-9)$; $-3 \cdot 2$ $8 \cdot (-4)$ $-1 \cdot 7$ Find each product. $4. 9 \cdot (-12) -108$ $516 \cdot 13 -208$ $68 \cdot (-25) -200$ $77 \cdot (-14) -98$ $8. 5 \cdot (-62) -310$ $910 \cdot (-19) -190$ $10. 6 \cdot (-81) -486$ $11. 0 \cdot (-99) - 0$ $1247 \cdot 9 -423$ Evaluate 12n for each value of n. $13. n = 18 -216$ $14. n = -784$ $15. n = -11 -132$ $16. n = -25 -300$ $17. n = 150 -1,800$ $18. n = -67804$ Evaluate each expression for the given value of the variable. $198w, w = 15$ $20. 11v, v = -9$ $21. n \cdot 13, n = -40$ 120 -99 -520 $229m, m = -70$ $23. z \cdot 28, z = -8$ $24. (c)(-(19), c = -20$ -630 -224 380 $25.$ Name two integers whose product $16. fo. fo. fo. write wear mode of the form the produce to the form the produce to the form the preace matricheace formain (a - 10) or (a - 10) or (a - 10) or (a - $	Reteach Itesson You can use two-color counters to multiply integers. $(+1)$ (-1) Multiply -4 by 2. First, think about the numerical expression in words. $-4 \cdot 2$ means "the opposite of 4 groups of 2." Then use counters to represent the expression. (-4) (-4) (-4) (-3) (-4) (-3) (-3) (-3) The opposite of 8 is -8 . -4 erg = -8. Use counters to find each product. $1.3 \cdot (-3)$ $25 \cdot (-1)$ $3.2 \cdot 3$ -9 -5 $5.$ $-4 \cdot (4)$ $6.0 \cdot (-3)$ $711 \cdot (1)$ -16 0 -11	43•4 86•-2 	
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Trestor Practice C Lise each set of integers to write two expressions, one with a positive product and one with a negative product. Possible answers are given 1. $-3, 2, -4$ 2. 8, $-4, 5$ 3. $-1, -9, 7$ $-3 \cdot (-4)$; $8 \cdot 5$; $-1 \cdot (-9)$; $-3 \cdot 2$ $8 \cdot (-4)$ $-1 \cdot 7$ Find each product. 4. $9 \cdot (-12) -108$ 5. $-16 \cdot 13 -208$ 6. $-8 \cdot (-25) -200$ 7. $-7 \cdot (-14) -98$ 8. $5 \cdot (-62) -310$ 9. $-10 \cdot (-19) -190$ 10. $6 \cdot (-81) -486$ 11. $0 \cdot (-99) - 0$ 12. $-47 \cdot 9 -423$ Evaluate 12n for each value of n. 13. $n = 18 - 216$ 14. $n = -784$ 15. $n = -11132$ 16. $n = -25 - 300$ 17. $n = 150 - 1,800$ 18. $n = -67804$ Evaluate each expression for the given value of the variable. 19. $-8w, w = 15$ 20. $11v, v = -9$ 21. $n \cdot 13, n = -40$ 120 -99 -520 22. $-9m, m = -70$ 23. $z \cdot 28, z = -8$ 24. $(c)(-19), c = -20$ -630 -224 -380 25. Name two integers whose product <td co<="" td=""><td>ReteachItessonNutiply integers.(+1) (-1)(+1) (-1)Multiply -4 by 2.First, think about the numerical expression in words4 • 2 means "the opposite of 4 groups of 2."Then use counters to represent the expression.(-4) (-2) (-2) (-2) (-2)4 groups of 24 groups of 2 are 8.The opposite of 8 is -84 • 2 = -8.Use counters to find each product.1. $3 • (-3)$$2 - 5 • (-1)$$3 \cdot 2 • 3$-9$5$$6$$54 • (4)$$6 \cdot 0 • (-3)$$711 • (1)$$-16$$0$$-11$$92 • (-4)$$10 \cdot 7 • (-2)$$11 \cdot 5 • 3$8</td><td>4. $-3 \cdot 4$ <u>-12</u> 8. $-6 \cdot -2$ <u>12</u> 12. $-8 \cdot (-2)$ <u>16</u></td></td>	<td>ReteachItessonNutiply integers.(+1) (-1)(+1) (-1)Multiply -4 by 2.First, think about the numerical expression in words4 • 2 means "the opposite of 4 groups of 2."Then use counters to represent the expression.(-4) (-2) (-2) (-2) (-2)4 groups of 24 groups of 2 are 8.The opposite of 8 is -84 • 2 = -8.Use counters to find each product.1. $3 • (-3)$$2 - 5 • (-1)$$3 \cdot 2 • 3$-9$5$$6$$54 • (4)$$6 \cdot 0 • (-3)$$711 • (1)$$-16$$0$$-11$$92 • (-4)$$10 \cdot 7 • (-2)$$11 \cdot 5 • 3$8</td> <td>4. $-3 \cdot 4$ <u>-12</u> 8. $-6 \cdot -2$ <u>12</u> 12. $-8 \cdot (-2)$ <u>16</u></td>	ReteachItessonNutiply integers.(+1) (-1)(+1) (-1)Multiply -4 by 2.First, think about the numerical expression in words4 • 2 means "the opposite of 4 groups of 2."Then use counters to represent the expression.(-4) (-2) (-2) (-2) (-2)4 groups of 24 groups of 2 are 8.The opposite of 8 is -84 • 2 = -8.Use counters to find each product.1. $3 • (-3)$ $2 - 5 • (-1)$ $3 \cdot 2 • 3$ -9 5 6 $54 • (4)$ $6 \cdot 0 • (-3)$ $711 • (1)$ -16 0 -11 $92 • (-4)$ $10 \cdot 7 • (-2)$ $11 \cdot 5 • 3$ 8	4. $-3 \cdot 4$ <u>-12</u> 8. $-6 \cdot -2$ <u>12</u> 12. $-8 \cdot (-2)$ <u>16</u>
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