

Lesson 12 ~ Multiplying Integers

Name _____ Period _____ Date _____

Model each product using a number line.

1. $2(4)$ A number line with arrows at both ends, ranging from -5 to 5. Major tick marks are labeled -5, 0, and 5. There are 4 small tick marks between each major tick mark, representing 1 unit each.
2. $-3(1)$ A number line with arrows at both ends, ranging from -5 to 5. Major tick marks are labeled -5, 0, and 5. There are 4 small tick marks between each major tick mark, representing 1 unit each.
3. $-2(-3)$ A number line with arrows at both ends, ranging from -5 to 5. Major tick marks are labeled -5, 0, and 5. There are 4 small tick marks between each major tick mark, representing 1 unit each.

Find each product.

- | | | |
|----------------|----------------|------------------|
| 4. $6(-2) =$ | 5. $-3(-1) =$ | 6. $-5(7) =$ |
| 7. $-8(-3) =$ | 8. $4(-1) =$ | 9. $-10(5) =$ |
| 10. $14(2) =$ | 11. $-7(-1) =$ | 12. $9(-8) =$ |
| 13. $-4(4) =$ | 14. $12(-3) =$ | 15. $-100(-6) =$ |
| 16. $20(-5) =$ | 17. $-4(-8) =$ | 18. $9(50) =$ |

19. Gary's stock dropped 3 points in value every day for 4 days. Find the integer that represents the change in value of his stock during that time.

20. Inessa is making ice tea. She has ice cubes which she uses to cool the ice tea. Each ice cube lowers the temperature of the liquid by 2°F . She adds 6 ice cubes to the tea. What integer represents the change in temperature of the ice tea?

21. Carrie withdraws \$10 from her account each day for 7 days.
a. What integer represents the total change in her account balance?

b. Her bank account had \$120 in it before she began withdrawing money. What is her balance after withdrawing the money for 7 days?