

HW 1.4 Lesson

Name: _____

- Regular: p. 26-27 #1-7, 17-39 odd, 40, 45
- Modified: p. 26-27 #2, 17, 21, 25, 27, 33, 39, 40
- Advanced: p. 26-27 #1-7, 17-39 odd, 40, 45, 46

1. WRITING What can you conclude about the signs of two integers whose product is (a) positive and (b) negative?

a) _____

b) _____

2. OPEN-ENDED Write two integers whose product is negative. _____

Tell whether the product is *positive* or *negative* without multiplying. Explain your reasoning.

3. $4(-8)$

4. $-5(-7)$

5. $-3 \cdot 12$

3. _____

4. _____

5. _____

Tell whether the statement is *true* or *false*. Explain your reasoning.

6. The product of three positive integers is positive.

7. The product of three negative integers is positive.

Multiply.

17. $-13(0)$

19. $15(-2)$

21. $-6 \cdot (-13)$

23. $-11 \cdot (-11)$

25. WETLANDS About 60,000 acres of wetlands are lost each year in the United States. What integer represents the change in wetlands after 4 years?

Sentence: _____

No Calculators

Multiply.

(Show your work!)

27. $6(-9)(-1)$

29. $(-5)(-7)(-20)$

31. $3 \cdot (-12) \cdot 0$

Evaluate the expression.

("Evaluate" means to solve. Show your work!)

33. $(-1)^3$

35. -6^2

37. $-2 \cdot (-3)^3$

ERROR ANALYSIS Describe and correct the error in evaluating the expression.

39.

ALGEBRA Evaluate the expression when $a = -2$, $b = 3$, and $c = -8$.

40. ab

45. **GYM CLASS** You lose four points each time you attend gym class without sneakers. You forget your sneakers three times. What integer represents the change in your points?

Sentence: _____

Advanced:

46. **MODELING** The height of an airplane during a landing is given by $22,000 + (-480t)$, where t is the time in minutes.

- a. Copy and complete the table.
- b. Estimate how many minutes it takes the plane to land. Explain your reasoning.

Time (minutes)	5	10	15	20
Height (feet)				