Use counters to multiply.
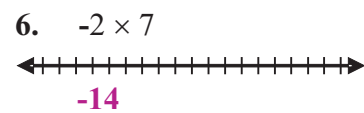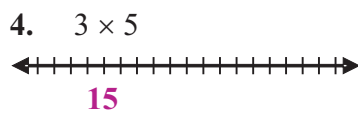
1. -2×5
    -10

2. 6×-4
    -24

3. -1×-3
    3

Use a number line to multiply.

4. 3×5

    15

5. -4×-4

    16

6. -2×7

    -14

Multiply.

7. 7×-3
    -21

8. 11×4
    44

9. -5×-2
    10

10. -9×7
    -63

11. 10×-3
    -30

12. -6×-4
    24

Divide.

13. $18 \div -9$
    -2

14. $-28 \div -7$
    4

15. $77 \div 11$
    7

16. $63 \div -9$
    -7

17. $-12 \div -4$
    3

18. $40 \div -4$
    -10

Use the numbers or their opposites in the order in which they are listed to write four multiplication number sentences for each problem. Make two of the products negative and two of the products positive.

19. 3, 9, 27

    $3 \times 9 = 27$
    $-3 \times -9 = 27$
    $-3 \times 9 = -27$
    $3 \times -9 = -27$

20. 6, 8, 48

    $6 \times 8 = 48$
    $-6 \times -8 = 48$
    $-6 \times 8 = -48$
    $6 \times -8 = -48$

Journal

1. Jerry was five weeks late returning research material to the public library. He had to pay a five-dollar fine for each week he was late. Write a number sentence using integers to demonstrate his total late fee. What is his late fee? Explain your reasoning.

2. Eight weeks ago, Jonathan began withdrawing $10 per week from his checking account. Write a number sentence using integers that represents Jonathan's withdrawals and find the total amount withdrawn. Explain your reasoning.

3. Write and solve a multiplication word problem that uses one positive integer and one negative integer.

Cumulative Review

Find the absolute value.

1. $|6|$
6

2. $|-5|$
5

Order the numbers from least to greatest.

3. -5, -8, -3, 4
-8, -5, -3, 4

4. 20, -18, -25, 22, 16, -11
-25, -18, -11, 16, 20, 22

Add.

5. 27 + (-7)
20

6. -34 + (-1)
-35

7. -49 + 5
-44

8. 13 + (-5)
8

Subtract.

9. 34 − (-8)
42

10. -2 − 2
-4

11. -1 − (-21)
20

12. 17 − 32
-15

40

Possible Journal Answers

1. $5 \times -5 = -25$; Jerry owed $25; the five-dollar fine can be represented by negative five. To find what his total late fee was, I multiplied five weeks times negative five dollars per week.

2. $-8 \times -10 = 80$; Jonathan withdrew $10 per week, which is represented by -10. He began eight weeks ago, which is represented by negative eight. The product of two negative numbers is a positive number.

3. For each of six hands of cards, Janice lost nine points. What is the total number of points that Janice lost? $6 \times -9 = -54$. Janice lost 54 points.

Module 3   Lesson 4

Independent Practice