Module 3   Integers
Lesson 3   Subtracting Integers

Use counters to subtract.

1. 16 – (-2)
    18

2. -13 – 18
    -31

3. -5 – (-6)
    1

4. 3 – 7
    -4

Use a number line to subtract.

5. 3 – (-3)

    6

6. -8 – (-2)

    -6

7. 17 – 8

    9

8. -12 – 6

    -18

Subtract.

9. -20 – (-4)
    -16

10. 76 – (-16)
    92

11. 9 – 18
    -9

12. -4 – 1
    -5

13. -31 – 3
    -34

14. 6 – 22
    -16

15. -4 – (-24)
    20

16. -8 – (-15)
    7

17. -54 – (-1)
    -53

18. 5 – 5 – (-5)
    5

19. -8 –(-8) –8
    -8

20. 15 – (-15) –30
    0

29

Journal

1. Give an example of a subtraction problem using counters where you have to add four zero pairs to the workspace in order to subtract. Explain how to get the answer.

2. When do you need to add zero pairs to your workspace to do a subtraction problem using counters? Explain.

3. When can you do a subtraction problem using counters without adding zero pairs to your workspace? Explain.

4. Imagine that walking west represents negative integers, walking east represents positive integers, and zero is the starting point. From the starting point, James walked west for 10 yards. While still facing west, he walked backward 25 yards. Write a number sentence using integers that demonstrates his path and the total number of yards he walked from his starting point. Explain your procedure.

Cumulative Review

Write a negative or positive number that correctly represents each statement.

1. Mr. Handle pays $115 for rent.
   -115

2. A submarine went down 200 yards.
   -200

Write the opposite of each integer.

3. -88
   +88

4. 37
   -37

Find the absolute value.

5. |-4|
   4

6. |77|
   77

Compare. Write either > or <.

7. 8 ____ -9
   >

8. -4 ____ -2
   <

30

Module 3   Integers
Lesson 3   Subtracting Integers

Order the numbers from least to greatest.

9.   6, -16, 0, -1, 1, 5, -11
      -16, -11, -1, 0, 1, 5, 6

10.   5, -3, -1, 2, -4, 3
      -4, -3, -1, 2, 3, 5

Add.

11.   67 + (-7)
      60

12.   -9 + (-4)
      -13

13.   -14 + 18
      4

14.   -40 + 4
      -36

Possible Journal Answers

1. I used 2 – (-4) for my subtraction problem. I put two positive counters on the workspace. I need to take away four negative counters, but there are no negative counters. So, I need to add four zero pairs. My workspace now has six positive counters and four negative counters. When I subtract, or remove, four negative counters, I have six positive counters left. So, 2 – (-4) = 6.

2. I need to add zero pairs to my workspace to do a subtraction problem using counters when my workspace does not have enough of the type of counters that I need to remove. For example, in the problem 2 – 3, I need to remove three positive counters, but my workspace initially has only two positive counters.

3. I do not need to add zero pairs to my workspace to do a subtraction problem using counters when my workspace has enough of the type of counters that I need to remove. For example, in the problem (-4) – (-2), I can remove two negative counters from my workspace which initially has four negative counters.

4. -10 – (-25) = 15; James walked west ten yards, which I wrote as -10. I used two negatives to show that James faced toward the west, and he walked backward. He ended up at -10 + 25 = 15.