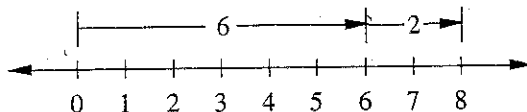


1-4

**Adding Integers with the Same Sign****Objective:** To add integers with the same sign.**Terms to Know**

**Adding Integers with the Same Sign** Adding two positive integers or two negative integers. The sum has the same sign as the integers.

**Example 1** Find the sum  $6 + 2$ .**Solution**

Start at 0.  
 Slide 6 units right.  
 Slide 2 more units right.  
 Stop at 8.  
 So  $6 + 2 = 8$ .

**Find each sum.**

1.  $3 + 17$

2.  $61 + 24$

3.  $27 + 7$

4.  $33 + 46$

5.  $22 + 1$

6.  $5 + 31$

7.  $38 + 3$

8.  $8 + 21$

9.  $47 + 9$

10.  $4 + 19$

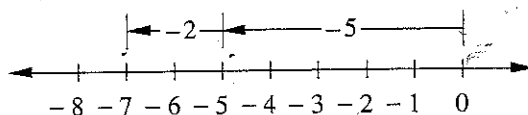
11.  $73 + 11$

12.  $6 + 42$

13.  $2 + 10$

14.  $28 + 62$

15.  $16 + 4$

**Example 2** Find the sum  $-5 + (-2)$ .**Solution**

Start at 0.  
 Slide 5 units to the left.  
 Slide 2 more units left.  
 Stop at  $-7$ .  
 So  $-5 + (-2) = -7$ .

1-4

**Adding Integers with the Same Sign** (continued)

Find each sum.

16.  $-6 + (-18)$

17.  $-23 + (-71)$

18.  $-3 + (-27)$

19.  $-27 + (-10)$

20.  $-8 + (-34)$

21.  $-12 + (-4)$

22.  $-24 + (-68)$

23.  $-11 + (-11)$

24.  $-11 + (-46)$

25.  $-2 + (-21)$

26.  $-37 + (-9)$

27.  $-7 + (-16)$

28.  $-16 + (-18)$

29.  $-5 + (-42)$

30.  $-40 + (-8)$

**Rule for adding integers with the same sign** To add two integers that have the *same* sign, add their absolute values. Then give the sum the sign of the integers.

**Example 3** Find each sum.

a.  $-7 + (-9)$

b.  $16 + 11$

**Solution**

a.  $|-7| = 7$  and  $|-9| = 9$   
 $7 + 9 = 16$ , so  
 $-7 + (-9) = -16$

b.  $|16| = 16$  and  $|11| = 11$ , so  
 $16 + 11 = 27$

Find each sum.

31.  $-6 + (-9)$

32.  $-12 + (-19)$

33.  $22 + 17$

34.  $11 + 13$

35.  $-8 + (-2)$

36.  $14 + 5$

**Spiral Review**

37. Estimate the quotient:  $4526 \div 89$  (Toolbox Skill 3)

38. Find the sum:  $-8 + (-3)$  (Lesson 3-2)

39. Simplify:  $6(8m + 3)$  (Lesson 2-2)

40. Find the difference:  $\frac{11}{12} - \frac{13}{18}$  (Toolbox Skill 17)