Review 87

Application of Integers

To find a *balance*, add the income (positive number) and the expenses (negative number). The sum is the balance.

Balance Sheet for Lunch Express		
Month	Income	Expenses
January	\$1,095	-\$459
February	\$1,468	-\$695
March	\$1,773	-\$700
April	\$602	\$655

• To find the balance for February, add 1,468 + (-695) = 773.

Lunch Express made a profit of \$773.

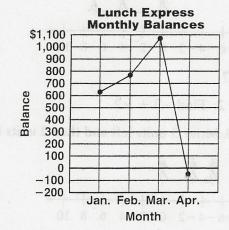
• To find the balance for April, add 602 + (-655) = -53.

Som Lunch Express had a loss of \$53.

1,095 + (-459) = 910 M

To look for a trend in the data, draw a line graph of the monthly balances.

- Balances range from -\$53 to \$1,073. Make the vertical scale from -\$200 to \$1,100.
 Use intervals of \$100.
- Use the horizontal scale for the months.



The trend was for increasing balances—until April.

Find each sum or difference.

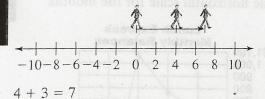
- 13. A company earned \$2,357 in January. The company earned \$2,427 in February and \$1,957 in March. The company's total expenses for the first quarter were \$4,594. What was the company's profit?
- 14. Your bank account is overdrawn \$31. The bank charges \$20 for being overdrawn. You deposit \$100. What is the balance of your bank account?

Review 82

You can add integers on a number line.

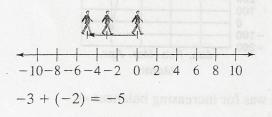
Example 1: Find 4 + 3.

Start at 0. Move 4 units right and then 3 units right.



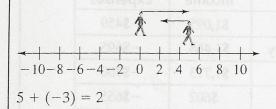
Example 2: Find -3 + -2.

Start at 0. Move 3 units left and then 2 units left.



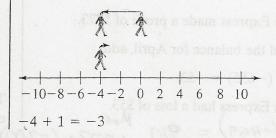
Example 3: Find 5 + (-3)

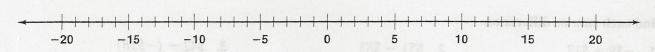
Start at 0. Move 5 units right and then 3 units left.



Example 4: Find -4 + 1.

Start at 0. Move 4 units left and then 1 unit right.





Use the number line to find each sum.

5.
$$4 + (-1)$$

10.
$$-3 + (-5)$$

11.
$$3 + (-5)$$

Find each sum.

13.
$$-6 + (-4)$$

15.
$$-1 + (-6)$$

26.
$$-12+0$$