Chapter 4 Section 2: Word Problems with One Unknown

Problems

Write an equation for each problem and solve for the unknown.

1. The sum of a number and 7 is 15.

2. The sum of a number and –6 is 14.

3. The sum of a number and 8 is –9.

4. The difference of a number and 8 is 13.

5. A number increased by –16 is 9.

6. The sum of a number and –3 is –21.

7. The difference of a number and –12 results in 45.

8. A number increased by –11 results in –17.

9. A number increase by 12 is 19.

10. The sum of a number and –17 is 13.

11. The difference of a number and 5 results in 25.

12. The quotient of a number and 7 results in 11.

13. The quotient of a number and –3 is 17.

14. The product of 15 and a number is –90.

15. Twice a number and 5 is equal to 33.

16. Twice a number and 10 is equal to –24.

17. Twice a number and –9 is equal to 15.

18. Twice the sum of a number and 9 is 26.

19. Three times the sum of twice a number and 4 is 36.

20. The quotient of twice a number and 5 results in –12.

21. Twice the sum of three times a number and –7 results in 70.

22. Six more than twice a number is equal to –14.
Solve each word problem.

23. The sum of Lee and his son’s age is 57 years. If his son is 15 years old, how old is Lee?

24. Ali paid $24 for a DVD. He could have rented four movies for the same amount. What is the cost of renting one movie?

25. A 38 foot log is cut into two pieces. If one piece is 29 feet long, what is the length of the other piece?

26. After a $15 discount, Amir paid $34 for a concert ticket. What is the original price of the ticket?

27. Joann’s bank account balance was decreased by $765 and is now $1,345. What was her original bank account balance?

28. Joe pays $130 a month for his cell phone bill. He has three cell phone lines and a $25 insurance charge on each bill. What is the cost of one cell phone line?

29. Mary spent $78 on two books. She received a $22 discount for buying two books. How much was the price of each book originally?

30. Colleen bought two TVs and received a $125 discount. If her bill came to $2,045 after the discount, what was the original price of one TV?