Elementary Algebra Skill

Setting Up and Solving Number Problems Leading to Radical Equations

Set up and solve.

1. The square root of a number is equal to 12. Find the number.

2. The square root of a number added to 4 gives 9. What is the number?

3. The difference of 21 and the square root of a number is 15. Find the number.

4. Twice the square root of a number gives 20. What is the number?

5. The quotient of 18 and the square root of a number is 3. Find the number.

6. The square root of a number less 10 yields -6. What is the number?

7. The square root of the sum of a number and 2 is 5. Find the number.

8. The square root of the difference of a number and 9 is 4. What is the number?

9. The square root of the sum of 3 and twice a number is 11. Find the number.

10. The square root of the difference of eleven times a number and 2 is 8. What is the number?

11. A number added to its square root gives 12. Find the number.

12. A number less its square root gives 20. What is the number?

13. A number increased by the square root of the sum of the number and 1 gives 11. Find the number.

14. A number subtracted from the square root of the difference of a number and 3 yields -3. Find the number.

15. Twice a number plus the square root of the sum of three times the number and 4 gives -1. Find the number.

Answers to Setting Up and Solving Number Problems Leading to Radical Equations

1) 144

2) 25

3) 36

4) 100

5) 36

6) 16

7) 23

8) 25

9) 59

10) 6

11) 9

12) 25

13) 8

14) 3 or 4

15) - 1