

3-2

Practice

Solving Equations by Using Addition and Subtraction

Solve each equation. Then check your solution.

1. $d - 8 = 17$

2. $v + 12 = -5$

3. $b - 2 = -11$

4. $-16 = s + 71$

5. $29 = a - 76$

6. $-14 + y = -2$

7. $8 - (-c) = 1$

8. $78 + r = -15$

9. $f + (-3) = -9$

10. $4.2 = n + 7.3$

11. $w + 1.9 = -2.5$

12. $4.6 - (-b) = -0.4$

13. $y - (-1.5) = 0.5$

14. $a - 0.13 = -0.58$

15. $k + (-4.21) = -19$

16. $r + \frac{1}{5} = \frac{9}{10}$

17. $\frac{5}{9} + q = \frac{2}{3}$

18. $\frac{1}{3} = h + \frac{2}{5}$

19. $\frac{1}{4} + x = -\frac{7}{12}$

20. $y + \frac{4}{5} = \frac{3}{4}$

21. $-\frac{7}{8} - (-n) = -\frac{7}{12}$

Write an equation for each problem. Then solve the equation and check your solution.

22. What number minus 9 is equal to -18 ?

23. A number plus 15 equals -12 . What is the number?

24. The sum of a number and -3 is equal to -91 . Find the number.

25. Negative seventeen equals 63 plus a number. What is the number?

26. The sum of negative 14, a number, and 6 is -5 . What is the number?

27. What number plus one half is equal to three eighths?

HISTORY For Exercises 28 and 29, use the following information.

Galileo Galilei was born in 1564. Many years later, in 1642, Sir Isaac Newton was born.

28. Write an addition equation to represent the situation.

29. How many years after Galileo was born was Isaac Newton born?

HURRICANES For Exercises 30 and 31, use the following information.

The day after a hurricane, the barometric pressure in a coastal town has risen to 29.7 inches of mercury, which is 2.9 inches of mercury higher than the pressure when the eye of the hurricane passed over.

30. Write an addition equation to represent the situation.

31. What was the barometric pressure when the eye passed over?