

3-2

Skills Practice***Solving Equations by Using Addition and Subtraction***

Solve each equation. Then check your solution.

1. $y - 7 = 8$

2. $w + 14 = -8$

3. $p - 4 = 6$

4. $-13 = 5 + x$

5. $98 = b + 34$

6. $y - 32 = -1$

7. $s + (-28) = 0$

8. $y + (-10) = 6$

9. $-1 = s + (-19)$

10. $j - (-17) = 36$

11. $14 = d + (-10)$

12. $u + (-5) = -15$

13. $11 = -16 + y$

14. $c - (-3) = 100$

15. $47 = w - (-8)$

16. $x - (-74) = -22$

17. $4 - (-h) = 68$

18. $-56 = 20 - (-e)$

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

19. A number decreased by 14 is -46 . Find the number.

20. Thirteen subtracted from a number is -5 . Find the number.

21. The sum of a number and 67 is equal to -34 . Find the number.

22. What number minus 28 equals -2 ?

23. A number plus -73 is equal to 27. What is the number?

24. A number plus -17 equals -1 . Find the number.

25. What number less 5 is equal to -39 ?

3-3**Skills Practice****Solving Equations by Using Multiplication and Division**

Solve each equation. Then check your solution.

1. $12z = 108$

2. $-7t = 49$

3. $18e = -216$

4. $\frac{1}{2}22 = 11v$

5. $-6d = -42$

6. $96 = -24a$

7. $\frac{c}{4} = 16$

8. $\frac{a}{16} = 9$

9. $-84 = \frac{d}{3}$

10. $-\frac{d}{7} = -13$

11. $\frac{t}{4} = -13$

12. $31 = -\frac{1}{6}n$

13. $-6 = \frac{2}{3}z$

14. $\frac{2}{7}q = -4$

15. $\frac{5}{9}p = -10$

16. $\frac{a}{10} = \frac{2}{5}$

17. $-0.4b = 5.2$

18. $1.6m = -4$

Write an equation for each problem. Then solve the equation.

19. The opposite of a number is -9 . What is the number?

20. Fourteen times a number is -42 . Find the number.

21. Eight times a number equals 128 . What is the number?

22. Negative twelve times a number equals -132 . Find the number.

23. Negative eighteen times a number is -54 . What is the number?

24. One sixth of a number is -17 . Find the number.

25. Negative three fifths of a number is -15 . What is the number?