

## 3.3 Practice A

Solve the equation. Check your solution.

1.  $x + 3 = 10$

2.  $b - 6 = -14$

3.  $5 = n + 9$

4.  $y - 2.1 = 7.5$

5.  $-6.4 = x + 4.3$

6.  $k - \frac{1}{3} = \frac{5}{6}$

7.  $10.5 + p = -8.32$

8.  $3\frac{3}{4} = r + \frac{1}{8}$

9.  $m + 1.06 = 5$

10.  $-\frac{7}{12} = 1\frac{5}{6} + d$

11.  $t - \frac{2}{7} = \frac{1}{2}$

12.  $-10.2 + c = -8.14$

Write the word sentence as an equation. Then solve.

13. 5 more than a number  $y$  is  $-2$ .

14. The sum of 8 and a number  $h$  is 12.

15.  $-13$  is 4 less than a number  $n$ .

In Exercises 16–20, write an equation. Then solve.

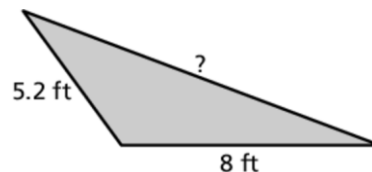
16. You earn \$9 per hour babysitting. This is \$2 more than what you earned per hour last year. What did you earn per hour last year?

17. Your mother asked you to turn the oven down to  $325^{\circ}\text{F}$ . This is  $75^{\circ}\text{F}$  less than it was. What was the original temperature?

18. The difference between the heights of your chair and your desk is  $-10\frac{1}{4}$  inches. The height of your desk is  $29\frac{3}{4}$  inches. What is the height of your chair?

19. Your Two-Day-Pass to a theme park is \$76.50. This is \$31.41 less than your uncle's Two-Day-Pass. What is the price of your uncle's pass?

20. The perimeter of a triangle is 25 feet. What is the length of the unknown side?



21. Find the value of  $3x + 2$  when  $7 + x = 5$ .

**3.3 Practice B****Solve the equation. Check your solution.**

1.  $x + 12 = 100$

2.  $g - 16 = -52$

3.  $-4.5 = m + 1.9$

4.  $j - 12.1 = 7.53$

5.  $y + 4.003 = -3.14$

6.  $z - 4\frac{1}{3} = 2\frac{2}{3}$

7.  $90.8 + q = -18.24$

8.  $10\frac{2}{3} = r + 12\frac{1}{6}$

9.  $b + 4.006 = 9$

10.  $-7\frac{5}{8} = 1\frac{5}{6} + d$

11.  $f - \frac{2}{15} = 6\frac{3}{5}$

12.  $-10.216 + c = -12.014$

**Write the word sentence as an equation. Then solve.**13. 27 is 12 more than a number  $x$ .14. The difference of a number  $p$  and  $-9$  is 12.15. 35 less than a number  $m$  is  $-72$ .**In Exercises 16–18, write an equation. Then solve.**

16. You swim the 50-meter freestyle in 28.12 seconds. This is 0.14 second less than your previous fastest time. What was your previous fastest time?

17. The perimeter of a rectangular backyard is  $32\frac{1}{2}$  meters. The two shorter sides are each  $7\frac{3}{8}$  meters long. What is the length of the two longer sides?*(Hint: The sum of the shorter side and the longer side is equal to half of the perimeter.)*18. The temperature of dry ice is  $-109.3^\circ\text{F}$ , which is  $183.6^\circ\text{F}$  less than the outside temperature. What is the outside temperature?

19. Your cell phone bill in August was \$61.43, which was \$21.75 more than your bill in July. Your cell phone bill in July was \$13.62 less than your bill in June. What was your cell phone bill in June?

**Find the values of  $x$ .**

20.  $|x| - 10.5 = 4.3$

21.  $|x + 2| - 7 = 5$