

LESSON
3.1
Practice C
For use with pages 132–140
Solve the equation.

1. $21 = x - 15$

2. $n - 13 = 8$

3. $-44 = w + 32$

4. $y + 10.5 = -9.4$

5. $a - 4.8 = -3.6$

6. $m + 6.25 = 3.5$

7. $c - \frac{1}{2} = \frac{3}{2}$

8. $x + \frac{2}{3} = \frac{5}{6}$

9. $-\frac{2}{5} = \frac{3}{8} + p$

10. $14x = 42$

11. $-1.5b = 7.5$

12. $-9.6 = 2.4m$

13. $-\frac{y}{4} = -23$

14. $\frac{2}{3}n = -\frac{8}{3}$

15. $-\frac{4}{5}a = \frac{12}{17}$

16. $\frac{a}{6.4} = -1.5$

17. $-\frac{4}{9}p = \frac{8}{21}$

18. $-\frac{14}{3}z = -\frac{28}{33}$

Find the value of b using the given information.

19. $3a = 9$ and $b = a - 2$

20. $a - 5.4 = 8.3$ and $b = 4a$

- 21. Tallest Mountains** Mount Kilimanjaro, the tallest mountain in Africa, is 1088 meters taller than Mont Blanc, the tallest mountain in Europe. Mount McKinley is the highest point in North America at 6194 meters. Mount McKinley is 1387 meters taller than Mont Blanc. How tall are Mount Kilimanjaro and Mont Blanc? *Explain* how you got your answers.

- 22. Car Wash** You are working at a car wash to raise money for a charity. By the end of the day, you raised \$342. You charged \$6 for each car wash.

- How many cars were washed during the day?
- If you had instead charged \$6.50 for each wash, how much more money would you have made? *Explain* how you got your answer.

- 23. Swimming** In the 2004 Summer Olympics, Pieter Van den Hoogenband won the 100-meter freestyle in 40.3 seconds. He also won the 200-meter freestyle in 105.35 seconds.

- Find his average speed in each competition. Round your answers to the nearest tenth of a meter per second.
- In which competition was he faster? By how much?

- 24. Camping** You are saving money for a tent that costs \$265. You have $\frac{2}{5}$ of the money from gifts at your recent birthday party. You will save the rest of the money from your part-time job.

- How much money will you need to save? *Explain* how you got your answer.
- If you make \$8 an hour, how many hours will you have to work to earn enough money to buy the tent?