1. Solve: \( x - 2 = -4 \)
2. Solve: \( b + \frac{3}{4} = \frac{5}{8} \)
3. Solve: \( -\frac{3}{4}y = -\frac{5}{8} \)
4. Solve: \( 3x - 5 = 7 \)
5. Solve: \( \frac{3}{4}y - 2 = 6 \)
6. Solve: \( 2x - 3 - 5x = 8 + 2x - 10 \)
7. Solve: \( 2[a - (2 - 3a) - 4] = a - 5 \)
8. Solve: \( E = IR + Ir \) for \( R \).
9. Solve: \( \frac{2x + 1}{3} - \frac{3x + 4}{6} = \frac{5x - 9}{9} \)
10. Solve: \( 3x - 2 \leq 6x + 7 \)
11. Solve: \( 4 - 3(x + 2) < 2(2x + 3) - 1 \)
12. Solve: \( 4x - 1 \geq 5 \) or \( 2 - 3x < 8 \)
13. Solve: \( 4 - 3x \geq 7 \) and \( 2x + 3 \geq 7 \)
14. Solve: \( |3 - 5x| = 12 \)
15. Solve: \( 2 - |2x - 5| = -7 \)
16. Solve: \( |3x - 5| \leq 4 \)
17. Solve: \( |4x - 3| > 5 \)
18. Gambelli Agency rents cars for $12 per day plus 10¢ for every mile driven. McDougal Rental rents cars for $24 per day with unlimited mileage. How many miles a day can you drive a Gambelli Agency car if it is to cost you less than a McDougal Rental car?

19. A machinist must make a bushing that has a tolerance of 0.002 in. The diameter of the bushing is 2.65 in. Find the lower and upper limits of the diameter of the bushing.

20. The sum of two integers is fifteen. Eight times the smaller integer is one less than three times the larger integer. Find the integers.

21. A stamp collection contains 11¢, 15¢, and 24¢ stamps. There are twice as many 11¢ stamps as 15¢ stamps. There are thirty stamps in all, with a value of $4.40. How many 24¢ stamps are in the collection?

22. A butcher combines 100 lb of hamburger that costs $1.60 per pound with 60 lb of hamburger that costs $3.20 per pound. Find the cost of the hamburger mixture.

23. A jogger runs a distance at a speed of 8 mph and returns the same distance running at a speed of 6 mph. Find the total distance that the jogger ran if the total time running was one hour and forty-five minutes.

24. Two trains are 250 mi apart and are traveling toward each other. One train is traveling 5 mph faster than the other train. The trains pass each other in 2 h. Find the speed of each train.

25. How many ounces of pure water must be added to 60 oz of an 8% salt solution to make a 3% salt solution?