

Add chart from p. 110 to notes

Define a variable and write an equation for each situation. Then solve.

13. Your test scores for the semester are 89, 85, and 92. Can you raise your test average to 90 with your next test?

14. You spend $\frac{1}{2}$ of your allowance each week on school lunches. Each lunch costs \$1.25. How much is your weekly allowance?

Solve each equation. If the equation is an identity, write *identity*. If it has no solution, write *no solution*.

15. $4h + 5 = 9h$

16. $2(3x - 6) = 3(2x - 4)$

17. $7t = 80 + 9t$

18. $m + 3m = 4$

19. $-b + 4b = 8b - b$

20. $6p + 1 = 3(2p + 1)$

21. $10z - 5 + 3z = 8 - z$

22. $3(g - 1) + 7 = 3g + 4$

23. $17 - 20q = (-13 - 5q)4$

Write an equation to model each situation. Then solve.

24. A DVD club charges a monthly membership fee of \$4.95 and \$11.95 for each DVD purchased. If a customer's bill for the month was \$64.70, how many DVDs did the customer purchase?

25. A lawyer charges \$100 per month to be put on retainer for a client. The lawyer also charges an hourly rate of \$75 for work done. How many hours does the lawyer have to work for a client, in one month, to charge \$625?

26. A rectangular pool is twice as long as it is wide. What are the dimensions of the pool if the perimeter is 42 yd?