

A Practice by Example

Example 1
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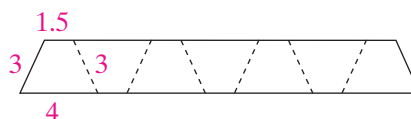


Need Help?

- Reread the problem.
- Identify the key facts and details.
- Tell the problem in your own words.
- Try a different strategy.
- Check your work.

Solve each problem by making a table and looking for a pattern.

1. Suppose a rectangular table seats four people on each side and three on each end. How many seats are available if the ends of seven tables are pushed together?
2. **Savings** A high school student has started a new job. He plans to save \$1 the first week, \$2 the second week, \$4 the third week, and \$8 the fourth week. If this pattern of savings could continue, how much would he save the tenth week?
3. **a.** Fence posts are 10 feet apart. How many fence posts are required for a straight fence that is 100 feet long?
b. What if the fence is circular?
4. **Geometry** A figure made from seven identical trapezoids is shown. Find the perimeter of the figure.



B Apply Your Skills

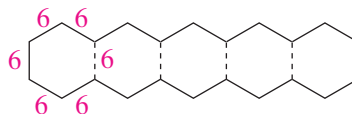
Strategies

- Draw a Diagram
- Make a Graph
- Make an Organized List
- Make a Table and Look for a Pattern
- Simulate a Problem
- Solve a Simpler Problem
- Try, Check, and Revise
- Use Logical Reasoning
- Work Backward
- Write an Equation

Choose a strategy to solve the problem.

5. **Cars** A car dealer sells at least 3 cars a day. On Monday morning there are 50 cars on the lot. By Friday evening of that week, what is the greatest number of cars the dealer can expect to have left?
6. **Jobs** Sanjay earns \$13.00 each week from his paper route. He earns \$.15 for each daily paper and \$.35 for each Sunday paper he delivers. He delivers twice as many daily papers as Sunday papers. How many of each type does he deliver each week?
7. **Band** Tia, Lewis, and Jill play trombone. Wendi, Pali, and Nigel play baritone. How many different pairs of a trombone player and a baritone player are there?
8. **Writing in Math** Your younger brother is pulling his sled up a hill. Each minute he moves forward 20 feet but also slides back 3 feet. Describe how you can determine the time he needs to pull his sled 130 feet forward.

9. **Geometry** This figure is made from a chain of five identical hexagons. All sides are 6 inches. Find the perimeter of the figure.



10. **Sports** At the beginning of a singles badminton tournament, 24 players are paired. At the end of each match, the loser is eliminated. How many matches must be played to determine the winner of the tournament?

C Challenge

11. There are many ways to add any of the numbers 3, 5, 7, 9, 11, and 12 to get a sum of 20. Numbers may be repeated. One way to get a sum of 20 is $9 + 5 + 3 + 3$. Find four other ways.
12. **Stretch Your Thinking** The sum of three consecutive odd numbers is 387. Find the numbers.



Test Prep

Multiple Choice

13. What is the value of $8x - 6$ when $x = 4$?
 A. 16 B. 26 C. 32 D. 38
14. What is the value of $5n + 2$ when $n = 9$?
 F. 43 G. 45 H. 47 I. 55
15. For which value of a does $7a - 2$ equal 40?
 A. 4 B. 6 C. 10 D. 11
16. Which expression represents x decreased by 4?
 F. $x - 4$ G. 4 H. $\frac{x}{4}$ I. $4 - x$



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Mixed Review

Lesson 2-3

Algebra Write an expression for each word phrase.

17. 12 times c 18. 9 multiplied by d 19. n more than 4.5
 20. 6.8 less than g 21. r less than 13 22. 8.1 decreased by y

Lesson 2-2

Algebra Evaluate each expression for $x = 6$.

23. $2x - 9$ 24. $x + 15$ 25. $4 \cdot (x + 2)$
 26. $52.7 - 3x$ 27. $4x + 3$ 28. $5x - (x + 2)$