

# 8-6 Study Guide and Intervention

## Factoring Quadratic Trinomials

Factor  $x^2 + bx + c$  by finding two integers whose product is  $c$  and whose sum is  $b$ . Use the integers to write the trinomial as a product of two binomials.

Factoring  $x^2 + 10x + 24$       $x^2 + 10x + 24 = (x + 4)(x + 6)$  because  $4 \cdot 6 = 24$  and  $4 + 6 = 10$ .

### Example 1: Factoring Trinomials

a.  $x^2 + 8x + 15$

Find two integers whose product is 15

Product	Sum
$1 \cdot 15$	16
$3 \cdot 5$	8

Since 3 and 5 have a product of 15 and a sum of 8, write the trinomial as

$x^2 + 8x + 15 = (x + 3)(x + 5)$

b.  $x^2 - 8x + 15$

Find two integers whose product is 15 and whose sum is  $-8$ . Since the sum is negative, both integers must be negative.

Since  $(-3)(-5) = 15$  and  $(-3) + (-5) = -8$ , write the trinomial as

$x^2 - 8x + 15 = (x - 3)(x - 5)$

**Check:**

### Factor each trinomial.

1.  $x^2 + 10x + 24$

$(x + 4)(x + 6)$

2.  $x^2 + 12x + 36$

$(x + 6)(x + 6)$

3.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

4.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

5.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

6.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

7.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

### Example 2: Factoring $x^2 + bx + c$

Factor the trinomial  $x^2 + 11x + 28$ . The trinomial can be factored only if there are two integers whose product is 28 and whose sum is 11.

Product	Sum
$1 \cdot 28$	29
$2 \cdot 14$	16
$4 \cdot 7$	11
$7 \cdot 4$	11
$14 \cdot 2$	16
$28 \cdot 1$	29

Since 4 and 7 have a product of 28

and  $4 + 7 = 11$ , write  $x^2 + 11x + 28$  as

1.  $x^2 + 10x + 24$

$(x + 4)(x + 6)$

2.  $x^2 + 12x + 36$

$(x + 6)(x + 6)$

3.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

4.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

5.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

6.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

7.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

8.  $x^2 + 10x + 24$

$(x + 4)(x + 6)$

9.  $x^2 + 12x + 36$

$(x + 6)(x + 6)$

10.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

11.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

12.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

13.  $x^2 + 14x + 49$

$(x + 7)(x + 7)$

14.  $x^2 + 10x + 25$

$(x + 5)(x + 5)$

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**A Case Manager's Study Guide** Denise Fattorusso, Campion Quinn, 2004 A quick reference resource that provides clear and concise information on Case Management and also serves as a study tool for those involved in preparing for case management certification

**Algebra 1, Study Guide and Intervention Workbook** McGraw-Hill/Glencoe, 2002-06  
**Algebra 2 Chapter 6 Resource Masters** McGraw-Hill Staff, 2002-05      **Algebra 1 Chapter 9 Resource Masters** McGraw-Hill Staff, 2002-04  
*Pre-Algebra, Guide to Daily Intervention* McGraw-Hill Staff, 2002-09      [Algebra 1 Chapter 12 Resource Masters](#) McGraw-Hill Staff, 2002-04      **Algebra 2 Chapter 13 Resource Masters** McGraw-Hill Staff, 2002-05

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**Glencoe Algebra I**, 2003      *Alfred's Piano 101: Teacher's Handbook for Books 1 & 2* E. L. Lancaster, Kenon D. Renfrow, The Teacher's Handbook serves as an aid in curriculum development and daily lesson planning Suggested daily lesson plans suggested assignments following each lesson plan teaching tips for each unit suggested examinations for the semester and answer keys for the written exercises and unit review worksheets It also suggests ways to successfully integrate keyboard and computer technology into the curriculum

**Clinical Companion Study Guide for Mosby's Dental Hygiene** Susan J. Daniel, Bonnie Francis, Sherry A. Harfst, 2008 This study guide companion to Mosby's Dental Hygiene Concepts Cases and Competencies 2nd Edition draws the student in using a friendly question and answer format that explains how's, what's, where's and why's of the content The answers to these questions tie into features from the main text including the Insight Statement Learning Outcomes Case Studies and Case Applications Review Questions and answers as well as Critical Thinking Activity Worksheets encourage students to practice their knowledge and skills after reading the text chapter and to prepare for exams Follows a format consistent with the main text and allows students to become familiar with the pattern and focus on learning the content A conversational question and answer format makes material less intimidating and immediately demonstrates the benefits of working on the exercises Frequent references to main text content such as Insight Statement Learning Outcomes and Case Study help student retain the information better through repetition Critical Thinking Activities help students practice application of concepts to everyday life and reach a better understanding of the dental hygienist's role Topics to Debate feature challenges students to consider the ethics and proper application of dental hygienist skills to real life situations they are likely to encounter Patient Education Links encourage students to access the Internet or Evolve site for additional sources or agencies for more information on topics related to the text Encourages self assessment with Process Performance forms that allow students to grade themselves on whether or not they have developed the skills necessary to meet the Learning Outcomes in the chapter Review questions answers and rationales at the end of the study guide help students review material and prepare for boards Sample forms and patient education handouts provide sample dialogues and questions to ask patients when interacting in the dental office and

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