

9-4

# Study Guide and Intervention

## Factoring Trinomials: $ax^2 + bx + c$

**Factor  $ax^2 + bx + c$**  To factor a trinomial of the form  $ax^2 + bx + c$ , find two integers,  $m$  and  $n$  whose product is equal to  $ac$  and whose sum is equal to  $b$ . If there are no integers that satisfy these requirements, the polynomial is called a prime polynomial.

### Example 1 Factor $2x^2 + 15x + 18$ .

In this example,  $a = 2$ ,  $b = 15$ , and  $c = 18$ . You need to find two numbers whose sum is 15 and whose product is  $2 \cdot 18 = 36$ . Make a list of the factors of 36 and look for the pair of factors whose sum is 15.

Factors of 36	Sum of Factors
1, 36	37
2, 18	20
3, 12	15

Use the pattern  $ax^2 + ax + ax + a$ , with  $a = 2$ ,  $m = 3$ ,  $n = 12$ , and  $c = 18$ .

$$\begin{aligned} 2x^2 + 15x + 18 &= 2x^2 + 3x + 12x + 18 \\ &= (2x^2 + 3x) + (12x + 18) \\ &= x(2x + 3) + 6(2x + 3) \\ &= (x + 6)(2x + 3) \end{aligned}$$

Therefore,  $2x^2 + 15x + 18 = (x + 6)(2x + 3)$ .

### Exercises

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write prime.

1.  $2x^2 - 3x - 2$   
 $(2x + 1)(x - 2)$

4.  $4x^2 + 5x - 6$   
 $(2x + 3)(2x - 2)$

7.  $3x^2 + 5x + 2$   
 $(2x + 3)(x + 1)$

10.  $5x^2 - 4x - 24$   
 $(4x - 8)(2x + 3)$

13.  $3y^2 - 6y - 24$   
 $3(y + 2)(y - 4)$

16.  $4x^2 - 7x + 18$   
 prime

2.  $3m^2 - 8m - 3$   
 $(3m + 1)(m - 3)$

5.  $2x^2 + 2x - 8$   
 $(2x - 4)(x + 2)$

8.  $18y^2 + 5y - 2$   
 $(6y + 5)(3y - 1)$

11.  $20p^2 + 60p - 25$   
 $(2p + 5)(14p - 5)$

14.  $4x^2 + 26x - 48$   
 $2(x + 8)(2x - 3)$

17.  $2a^2 - 14a + 36$   
 $2(a^2 - 7a + 18)$

3.  $16x^2 - 2x - 1$   
 $(4x - 1)(4x + 1)$

6.  $18x^2 - 27x - 3$   
 $(3x - 5)(6x + 1)$

9.  $-4x^2 + 35x - 23$   
 $(4x - 7)(3x - 1)$

12.  $40x^2 + 22x - 15$   
 $(5x + 6)(8x - 3)$

15.  $2m^2 - 44m + 48$   
 $4(2m - 3)(m - 4)$

18.  $18 - 11y - 2y^2$   
 prime

# Algebra Homework Practice Workbook Answer Key

**Nancy Roser**

## **Algebra Homework Practice Workbook Answer Key:**

*Pre-Algebra* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-04-23     *Forthcoming Books* Rose Arny,2003-04     *Working with Fractions* Ruth Herlihy,1995-09-01 This packet provides practice in sixth grade mathematics skills with emphasis placed on fractions The material correlates with the curriculum in most basic mathematics texts and parents who wish their children to have practice in mathematics skills will find the book as helpful as classroom teachers will find it The exercises are presented so that a child can work with a minimum of supervision Answers are included

**Children's Books in Print** R R Bowker Publishing,Bowker,1999-12     **Adding Addends** Ruth Herlihy,1995-09-01 This packet provides practice in third grade mathematics skills with emphasis placed on addition The material correlates with the curriculum in most basic mathematics texts and parents who wish their children to have practice in mathematics skills will find the book as helpful as classroom teachers will find it The exercises are presented so that a child can work with a minimum of supervision Answers are included     **Some Sums** Ruth Herlihy,1995-09-01 Parents teachers and students will all find this packet helpful which reviews addition of whole numbers Examples are provided so students can work with a minimum of supervision from front to back or in any order that best meets their needs Answers are included     *Algebra 1* McDougal Littell Incorporated,2003     **Algebra 1 Spanish Homework Practice Workbook** McGraw Hill,2011-08-26 Annotated edition with answer key     **Numeracy Tests Year 7** Angella Athanasou,2003     *El-Hi Textbooks and Serials in Print* ,2006     *Books in Print Supplement* ,2002     *El-Hi Textbooks & Serials in Print, 2005* ,2005     **Algebra 2** Ron Larson,2004     **Algebra 2** McDougal Littell Incorporated,Ron Larson,2004     *Premium Education Math Grade 1* Twin Sisters® Digital MediaTM,2025-04-14 This score boosting Premium Education workbook is a must have for parents who want to boost their child's confidence This book provides exceptional practice for standardized tests by incorporating a comprehensive practice test in addition to skill building exercises Practice worksheets provide an excellent preparation for standardized testing Answer key included for ease of checking a child's work     *Resources in Education* ,1990

**Scholastic Success with Reading and Math Jumbo Workbook** Kathleen M. Hollenbeck,2005-07 300 skill building pages that give young learners practice with the alphabet sight words handwriting phonics numbers shapes and everything they'll need to succeed as students For use with Grade K     **New York Math: Math B** ,2000     **El-Hi Textbooks & Serials in Print, 2003** ,2003     **Spectrum Spelling Workbook Grade 1** Nancy Roser,1998-03 Contains exercises that teach basic letter formation letter sounds spelling and word meanings Includes a speller dictionary and an answer key

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