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Factoring — Quick Reference

Finding the GCF

Find the GCF for: $30x^3 + 5x^2 - 25x$

Step 1: Look at the coefficients

Ask yourself: Is there a number that I can divide 30, 5, and 25 by evenly? Yes, 5!

$(30/5 = 6) \cdot (5/5=1) \cdot (-25/5 = -5)$

Step 2: Look at the variable(s).

Ask yourself: Can I factor out a variable from EVERY term? Yes! Each term has at least one x, therefore, I can factor out x.

Step 3: Identify the GCF:

The GCF for this polynomial is: 5x. (You can divide every term by 5x evenly (without creating a fraction).

Factoring Using the GCF

Factor the greatest common factor from:
$3x^4y^3 + 12x^3y - 18x^2y^2$

Solution:

Step 1: Look at the coefficients.
What is the GCF for 3, 12, 18?
$3x^4y^3 + 12x^3y - 18x^2y^2$
(What is the greatest number that can be divided into all evenly?)

3 is the GCF (for the coefficients).

Step 2: Look at the variable.
Can I factor out a variable for EVERY term?
Yes! Each term contains at least one x^2 and y. (x^2y)
$3x^4y^3 + 12x^3y - 18x^2y^2$

Step 3: Identify the GCF.
The GCF is $3x^2y$. Now we are going to divide EVERY term by $3x^2y$. (Most students do this mentally, but I am going to write it out to show you the process.)

$$\frac{3x^4y^3}{3x^2y} + \frac{12x^3y}{3x^2y} - \frac{18x^2y^2}{3x^2y}$$

$x^2y^2 + 4x - 6y$ (the result after dividing)

Step 4: Write appropriately in factored form.

$3x^2y (x^2y^2 + 4x - 6y)$

GCF   Result after dividing each term by the GCF

Factored Form: $3x^2y (x^2y^2 + 4x - 6y)$

Factoring by Grouping

Factor the following polynomial:

$x^3y^3 + 2x^2 + 4x^3y^3 + 8x^3$

Step 1: Separate the polynomial into 2 or more groups according to common factors. Identify the common factor for each group. (In this problem I need to rewrite the problem with common factors side by side.)

$x^3y^3 + 4x^3y^3$ $+ 2x^2 + 8x^3$

x^3y^3 is a common factor $2x^2$ is a common factor

Step 2: Divide each term by the common factor.

$\frac{x^3y^3}{x^3y^3} + \frac{4x^3y^3}{x^3y^3}$ $\frac{2x^2}{2x^2} + \frac{8x^3}{2x^2}$

$x + 4$ + $x + 4$ ← Result after dividing

Step 3: Write appropriately in factored form.

$x^3y^3 (x+4)$ + $2x^2 (x+4)$

Common Result   Common Result
Factor after dividing factor after dividing

$x^3y^3 (x+4) + 2x^2 (x+4)$

Step 4: Now these two terms have a common factor. The common factor is (x+4). We can factor (x+4) and we are left with:

$(x+4)(x^3y^3 + 2x^2)$ This is the final answer in factored form.

Factoring Trinomials

Factor: $x^2 - 10x + 21$

Step 1: We are going to form two binomials, so write two sets of parentheses.

( )( )

Step 2: What can we multiply together to get x^2? (The first term of each binomial is multiplied together to get the first term of the trinomial. $(x \times x = x^2)$

$x^2 - 10x + 21$

$(x)(x)$

Step 3: We need to find two numbers that we can add together to get -10 AND multiply together to get 21. (You must remember to take the sign in front of the term with it, therefore, the middle term is -10)

$x^2 - 10x + 21$

Two numbers that we add to get -10 & multiply to get 21

"In order to add two numbers together and get a negative number and then multiply the same two numbers and get a positive number, both numbers must be negative."

Factors of 21	Sum of Factors
-1 · -21 = 21	-1 + (-21) = -22
-3 · -7 = 21	-3 + (-7) = -10

(There are other factors, but I will stop here since I found the one I am looking for)

Our last terms need to be -3 and -7 since when multiplied together they equal 21 and when added together the sum is -10.

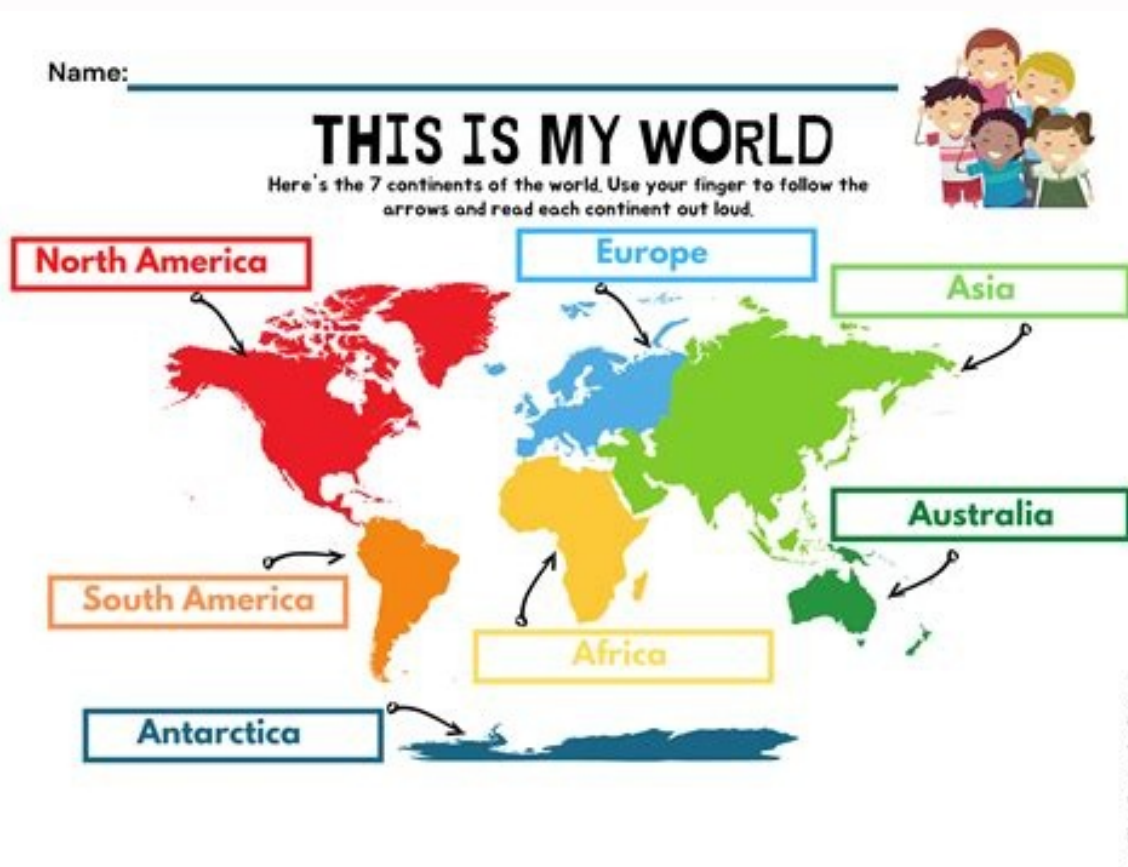**Step 4:** Complete the binomials.

$(x - 3)(x - 7)$ ← Final Solution

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Name: _____

THIS IS MY wORLD

Here's the 7 continents of the world. Use your finger to follow the arrows and read each continent out loud.

North America
Europe
Asia
South America
Africa
Australia
Antarctica

[Detail] Lucille Burroughs, daughter of a cotton sharecropper Much of history is interpreted from an adult point of view. Billie Jo's piano playing leads to a job with a local musical group and gives her the opportunity to bring home a little money for the family. In addition, students examine primary source materials of the period to correlate the fictional text with actual visual, auditory, and manuscript accounts as found in the Library of Congress Digital collections. Or choose to conveniently print what you need, when you need it: Print the whole guide at once Print single lessons or pages as the student completes them Print multiple copies of the entire guide for classroom sets Easy to use with multiple students Complete separate answer key file included for the teacher! Free technical support if you encounter any difficulties using the digital guide! Step Three: Depicting the Text (3-4 class periods) Extension Lesson Evaluation Student assessment is determined by teacher and peer evaluations based on how closely student-selected images depict text selected in the student's Guided Reading Journal. This unit helps students gain an understanding of Dust Bowl history through the eyes of a child. After a brainstorming session, students can review the original image of Lucille Burroughs, daughter of a cotton sharecropper with its bibliographic record found in America from the Great Depression to World War II: Black-and-White Photographs from the FSA and OWI, ca. Literary Techniques: Poetic devices, figurative language, onomatopoeia, structure, sensory images, poetic caesura, compare and contrast, symbolism, similes, metaphors, extended metaphor, personification, alliteration, consonance, assonance, repetition, dilemma, line structure, theme, dynamic characters, rhyme, conflict, double meaning, climax, resolution. Moral Lessons and Character Values: Relationship, anger, generosity, the effect of our words, stewardship, blame, grief, freedom, forgiveness, coming-of-age. Activities and Writing Assignments: Great Depression, history, mapping, class discussions, service project, farming, art, poetry, writing. What questions do these images evoke? Background Information: Dust Bowl, open form poetry. Billie Jo is a good student, but her true joy is playing the piano. Guided Reading Journal Guided Reading Journal (PDF, 20 KB) As you read Out of the Dust, use this page to document significant passages in each of the following areas that reflect the Dust Bowl experience from a young person's point of view. She and her father must now face the grieving, the healing, and the Dust Bowl alone. She was used to visually depict Hesse's character, Billy Jo. Using the same photoanalysis technique in Step One, discuss with students the possible origins of the photograph. Through Karen Hesse's vivid portrayal of the Dust Bowl, students will learn: About the Author: Learn about Karen Hesse. Written in free verse as a poetic journal, this touching novel of loss, healing and returning joy after tragedy strikes vividly brings the Dust Bowl years to life. Quote the passages you select, giving the page number. If you have other passages from Out of the Dust that you feel are significant, feel free to list them on the back! Categories Page # Passage School life   Community life   Family life   Agriculture   Landscape   Assistance from others   Primary Source Analysis Tool Resources Teachers Guide to Analyzing Photographs and Prints Lesson Procedure Step One: Accessing Prior Knowledge, Initial Reaction (1 class period) Step Two: History Through Fiction (2-3 class periods) Students read Out of the Dust, noting Billy Jo's experiences in the Dust Bowl. Though she knows he loves her, she believes her father views her as a substitute for the son he really wanted. When her mother reveals that she is pregnant again, and the pregnancy seems to be going well, the family is hopeful. Why was this photograph used? Speculate as to when and where these photographs may have been taken. Billie Jo Kelby is an only child. Which image "speaks" to you and why? All of the unit lessons are written from a Christian worldview! Features and Benefits of the study guide E-guide Format Available instantly with no shipping costs! Provides the study guide in universally compatible PDF format (works on Mac AND Windows) No costly software purchases necessary Our Interactive Study Guide should be opened with the FREE Adobe Readerprogram. Vocabulary words used throughout the novel, utilizing a variety of activities to stimulate retention and growth. Despite the hardships of dust and the Great Depression, Billie Jo and her mother and father are a relatively happy family. Using Karen Hesse's Newbery Award-winning Out of the Dust as an introduction to this aspect of the Great Depression, students have the opportunity to identify with the personal experiences of youth in the 1930s. Note: Mobile Devices/Tablets may require alternative app that supports and saves fillable form fields. 1935-1945. Credits Jan King & Rena Nisbet Click here for a sample section of the Out of the Dust Study Guide!   Get the book Out of the Dust HERE   Newbery Award Winner 1998, Scott O'Dell Award for Historical Fiction, ALA Notable Children's Book, ALA Best Book for Young Adults. With the interactive feature, students have the capability of entering their answers directly on the computer and saving their work in progress. She must deal with her mother's death, her father's decline, and her burned hands. Suggestions for Further Reading: We include a wonderful reading list of more books by the same author(s) and other books that tie in with, or are similar to, Out of the Dust by Karen Hesse. Written in spare, first-person free-verse poems, the book is about how Billie Jo survives during the Dust bowl during the Depression. Objectives Students will be able to: examine primary source materials to gain knowledge of the Dust Bowl; use historical fiction to understand the human aspect of the Dust Bowl experience; relate primary source materials from American Memory collections to passages, characters, and events from the novel; develop research skills and strategies, such as keyword searches, for finding information. If every picture tells a story, what story do these photographs convey? Time Required One to two weeks Lesson Preparation Materials Images of the Great Depression Study these images, then answer the following questions. Billie Jo's mother dies, and Billie Jo suffers serious burns herself when she tries to extinguish the fire with her bare hands. The book ends on an optimistic note: Billie Jo's hands heal, and she can once again play the piano. However, tragedy strikes during an ordinary day. A bucket of kerosene, mistaken for a pail of water, leads to a terrible fire. Using the Guided Reading Journal, students keep a guided journal noting specific passages relating to: school life community life family life government assistance agriculture After reading the novel, as a group examine the cover of Out of the Dust, noting the photograph of Lucille Burroughs.

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