

Factoring Using the Distributive Property

Recall that the distributive property is

$$a(b+c) = ab + ac$$

When we factor using the distributive property, we are going in reverse. This means that we are trying to find the greatest common factor and pull it out to rewrite it.

$$ab + ac = a(b + c)$$

Let's look at a specific problem to fully understand how factoring with distribution works.

$$40 + 70 =$$

First, we need to find the greatest common factor (GCF) of 40 and 70. You may know this quickly in your head, or you may need to make a chart or list of factors.

40: 1, 2, 4, 5, 8, 10, 20, 40

70: 1, 2, 5, 7, 10, 14, 35, 70

Then divide each term by the GCF.

$$40 \div 10 = 4 \quad 70 \div 10 = 7$$

Now we have: $10 \cdot 4 + 10 \cdot 7$

We can now pull out the common factor of 10 and rewrite the problem in factored form.

$$10(4 + 7)$$

You can check your answer by distributing to see if you come up with the original problem. In this case, $10 \cdot 4 = 40$ and $10 \cdot 7 = 70$, so we know that we got the answer correct!

But what if there are variables in the terms?

If we have the problem $7x + 7y$, how do we factor using the distributive property?

We use the same procedure, find the GCF, remove it, and rewrite.

$$7x = 7 \cdot x$$

$$7y = 7 \cdot y$$

The only common factor is 7. The terms do not have a variable in common, so we factor out the 7 and leave the variables in the parenthesis.

$$7 \cdot x + 7 \cdot y = 7(x + y)$$

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N Colangelo



Distributive Property Lesson Plans Algebra :

Distributive Property Lesson Plans Algebra : Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Distributive Property Lesson Plans Algebra : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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