Snow Packet Days 17 - 26

Algebra I & Algebra I Support Blocks 1 & 2 (Notes and Assignment included) Mrs. Penni Powell

Please contact me with any questions using -LiveGrades messaging -Email at penni.powell@kl2.wv.us -Remind App messaging using class codes listed below Class code lst block: @ehspowell1 Class code 2nd block: @ehspowell2 -Google Voice Text Messaging (304) 460 - 5044

PLEASE VISIT <u>YOUTUBE</u> FOR VIDEO LESSON THAT CORRELATES WITH YOUR NOTES!

SEARCH BY MY NAME "PENNI POWELL"

TASKS FOR PAYS 17 - 26

Day 17 (April 20th) Brain Break Scavenger Hunt

Task I: Complete the scavenger hunt you began on Day IG. Have fun! Don't forget to email me the prezi! (penni.powell@kl2.wv.us)

Days 18 - 19 (April 21st & 22nd) Factoring Special Products of Polynomials: Perfect Squares & Differences of Squares

Objective: The learner will be able to factor the difference of two squares & the learner will be able to factor perfect square trinomials.

Task #1: Read over provided notes & watch the instructional YouTube video titled "Days 18 & 19" Task #2: Complete the handout *"Perfect Square Trinomials & Difference of Squares"* as a continuation of notes and practice work. Then check your answers against the provided answer key. (Do <u>NOT</u> turn in this work- this is simply practice for the assignment).

Task #3: Complete the matching cut & paste Tarsia Jigsaw

For additional examples and explanations, refer to pg. 372 examples 1 & pgs. 398 - 399 examples 1 - 3 in your textbook.

Days 20-21 (April 23rd & 24th) Factoring Polynomials Using a GCF (Greatest Common Factor)

Objective: The learner will be able to factor polynomials using the GCF (Greatest common factor). Task #1: Read over provided notes & watch the instructional YouTube video titled "Days 20 & 21" Task #2: Complete the self-checking handout *"Why Didn't the Piano Work?"*

For additional examples and explanations, refer to pg. 379 example 4 and pg. 392 example 1 in your textbook.

For additional practice complete the self-checking scavenger hunt handout or the IXL lesson "AA.1 GCF of monomials"

Days 22-23 (April 27th & 28th) Factoring Polynomials by Grouping

Objective: The learner will be able to factor a polynomial by grouping. Task #1: Read over provided notes & watch the instructional YouTube video titled "Days 22 & 23" Task #2: Complete the handout *"Cridwords: Factoring by Grouping #3"* For additional examples and assistance, refer to pg. 404 example I in your textbook.

Days 24 & 25 (April 29th & 30th) Factoring Polynomials Completely

Objective: The learner will be able to factor a polynomial completely, using any previous factoring method.

Task #1: Read over provided review template & watch the instructional YouTube video titled "Days 24 & 25"

Task #2: complete the *"Zombies! Factoring Polynomials: Survive the Zombie Apocalypse" Flip Book* For additional examples and assistance, refer to pg. 405, examples 2 & 3 and all previous factoring sections in your textbook.

Day 26 (May Ist) Chapter 7 Vocabulary Choice Board

Task I: Complete one activity of your choice to review the vocabulary in Chapter 7

Remember you must show all work for each assignment to earn credit!

If additional practice is needed, I encourage you to Find lessons on IXL to practice. Logon through your Clever account. In the IXL search bar, search for lessons using the title of the day, such as "adding & subtracting polynomials" and pick an Algebra I lesson. Finally, work through questions until you get a Smart Score of 80!

Lastly. for all textbook references & assignments, you should have an issued textbook at home or you can utilize your online textbook (Big Ideas Math).

Days 18 & 19: Factoring Special Products of Polynomials FACTORING PERFECT SQUARES & DIFFERENCE OF SQUARES NOTES

In this section, we will learn about special products of polynomials. There are three types of specials products.

	Perfect Square	e of a Binomial (Sum)	
Form for a Perfect Square of a Binomial (sum) $(a + b)^2$ = $a^2 + 2ab + b^2$	Notice that in the end result, you will have a perfect square for both the first and last terms of the polynomials and your middle term is twice the product of the first and last term. Therefore, producing +2ab	What you can conclude is when given a polynomial that fits the pattern $a^2 + 2ab + b^2$, Where a & b are both perfect squares, and you can produce the middle term by multiplying a & b (the square roots of those perfect squares) by 2, the factorization will be $(a + b)^2$	Example: $144m^2 + 264x + 121$ $a^2 = 144, b^2 = 121$ Notice, both numbers are <i>perfect squares</i> . This should be a red flag! Take the square root of each number, $\sqrt{144} = 12 & \sqrt{121} = 11$ This means $a = 12, b = 11$ Now, test if 2ab = your middle term. 2ab = 2(12)(11) = 264 Perfect! Now setup the factorization from this form (a + b) ² Where, a = 12 & b = 11 (11m + 12) ²

Ŕ	Perfect Square of	a Binomial (Difference	e)
Form for Perfect Square of a Binomial (Difference) $(a - b)^2$ = $a^2 - 2ab + b^2$	Notice that in the end result, you will have a perfect square for both the first and last terms of the polynomials and your middle term is twice the product of the first and last term. Therefore, producing -2ab	What you can conclude is when given a polynomial that fits the pattern $a^2 - 2ab + b^2$, Where a & b are both perfect squares, and you can produce the middle term by multiplying a & b (the square roots of those perfect squares) by 2, the factorization will be $(a - b)^2$	Example: $w^2 - 18w + 81$ $a^2 = 1, b^2 = 81$ Notice, both numbers are <i>perfect squares.</i> This should be a red flag! Take the square root of each number, $\sqrt{1} = 1 & \sqrt{81} = 9$ This means $a = 1, b = 9$
			Now, test if 2ab = your middle term. 2ab = $2(1)(9) = 18$ Perfect! Now setup the factorization from this form $(a - b)^2$ Where, $a = 1 \& b = 9$ *Remember subtract in this factorization!* $(w - 9)^2$

	Difference of	f Squares Binomial	
Form for a Difference of Squares Binomial (a + b) (a - b) $= a^2 - b^2$	Notice that in the end result, you will have a perfect square for both the first and last terms of the polynomials and there is no middle term .	What you can conclude is when given a polynomial that fits the pattern $a^2 - b^2$, Where a & b are both perfect squares, and there is no middle term, the factorization will be (a + b) (a - b)	Example: $16x^2 - 25$ The first red flag here should be that you have no middle term! Now, check if the two terms you have are perfect squares. $a^2 = 16, b^2 = 25$ Both numbers are <i>perfect</i> <i>squares</i> Take the square root of squares Take the square root of each number, $\sqrt{16} = 4 & \sqrt{25} = 5$ This means $a = 4, b = 5$ Now setup the factorization from this form $(a + b) (a - b)$ Where, $a = 4 & b = 5$ (4x + 5) (4x - 5)

So, what can you take from this chart?

We need to remember these patterns in our polynomials! When given perfect squares as the first and last term of a polynomial, we must check if that middle term follows one of the three given guidelines for a special solution. This will allow you to quickly determine the factorization of the polynomial!

If you're still feeling confused, follow these helpful steps:

STEP 1: You notice that the first and last terms might be perfect squares. Take the square root of each number. If you have a perfect square, move onto step 2. The two answers you have are your values of a & b for the following steps.

If you do not have two perfect squares, factor as usual.

STEP 2: Determine if the term in place of "b" can be found by multiplying a, b, and 2. If you found b using this method, great! Move on to step 3. If not, factor as usual.

SIDE NOTE- if you do not have a middle term, skip to step 3.

STEP 3: Setup your factorization using the values of a & b from step 1.

If there are three terms, you have either a sum or difference of a PERFECT SQUARE.

 $(a + b)^2$ or $(a - b)^2$

*To determine, whether you have a sum (+) or

difference (-), look at the original polynomial you

were given. If ${\sf b}$ is positive, you have a sum. If ${\sf b}$

is negative, you have a difference.

If there are only two terms (you're missing the middle term), you have a DIFFERENCE OF SQUARES.

(a + b) (a - b)

There ya go! Now give it a shot!

Perfect Square Trinomials, Difference of Squares

6. (x-3)(x+3)

Warm-Up:

Multiply the binomials and look for patterns

- 1. (x-1)(x-1) 5. (x-1)(x+1)
- 2. (x-3)(x-3)
- 3. (2x-y)(2x-y) 7. (x-1)(x-6)
- 4. (2ax b)(2ax b)8. (2x - 3y)(2x - 3y)
- Ex. 1 Multiply these expressions. Describe any patterns you observe.
- 1. (x-1)(x-1)3. (2x+y)(2x+y)
- 2. (x+3)(x+3) 4. (2ax+b)(2ax+b)

Perfect Square Trinomial $(a + b)(a + b) = (a + b)^2 = a^2 + 2ab + b^2$ $(a - b)(a - b) = (a - b)^2 = a^2 - 2ab + b^2$ Both expressions have three terms: the square of a, twice a times b, and the square of b.

Ex. 3

Multiply these expressions and describe any patterns you observe 1. (x-1)(x-1)3. (x+6)(x+6)

2.
$$(x-3)(x-3)$$
 4. $(2x+y)(2x+y)$

Difference of Squares
$(\mathbf{a} + \mathbf{b})(\mathbf{a} - \mathbf{b}) = \mathbf{a}^2 - \mathbf{b}^2$
The expression $a^2 - b^2$ has two terms: the square of a and the square of b.

Ex. 5

Identify each expression as a perfect square trinomial, difference of squares, or neither. Factor (unless its neither).

1.	$\mathbf{x}^2 + 2\mathbf{x} + 1$	5.	$x^{2} + 4x + 1$
2.	$y^{2} + 4y + 4$	6.	$9x^{2} + 25$
3,	$x^2 - 5x + 25$	7.	$y^2 + 2yz + z^2$
4.	$4x^2 - 25$		



4. (2x + y)(2x + y)

X2-6×+9

X2-2X+1 2. (x - 3)(x - 3)

Perfect Square Trinomial (a + b)(a + b) = (a + b)² = $a^2 + 2ab + b^3$

7

1, +++++ Perfect Square +++= Neither (x+2)² Trinomuau 1, +=+= Neither (y+=)² Perfect Square Difference of Squares $M_{\rm Med}$ - b) = a¹ - b¹ $K_{\rm Med}$ - b) - bc. (a + b)(a - b) = a¹ - b¹ has two terms: the square of a and the square of b. E.r. 5 Lidentify each expression as a perfect square trinomial, difference of squares, or neither. Factor (unless its neither). 1. "+21+1 Perfect Square 5. "+4+1 Neither (X+1)2 Trinomial *The muddle term is truid the product of a and b (2x-5)(2x+5) of squares

Perfect Square Trironitels Revised fr: 2009 MLC Page 2 of 4

DAYS 18 & 19: Factoring Special Products continued

Using your notes from yesterday, you are going to complete a Tarsia Jigsaw. This Jigsaw puzzle is a mixture of the factoring you have done in previous sections, as well as factoring perfect square and difference of squares polynomials.

Tarsia Jigsaw Directions:

#1 Cut out each of the triangles. As you cut out the triangles, notice that each triangle has a mixture of polynomials and binomials. Polynomials are the questions and the binomials being multiplied are the answers in steps to come.

#2 Factor each polynomial within the given triangles. Show your work, whether on the back of the triangle or on a separate sheet of paper. Then transfer the answer only above/below the polynomial on the front of the triangle.

#3 Match the answers to your polynomials to the answers on OTHER triangles. As you match these, the question polynomial & the answer binomial should be touching.

#4 Once you have found each match and placed the triangles side by side, you should notice you have a shape. Once this is complete, glue/tape your triangles to a piece of paper. #5 Feel free to color and decorate as you go!



HINT - YOUR END RESULT SHOULD BE A HEXAGON



DAYS 20 & 21: Factoring Polynomials using a GCF (Greatest Common Factor) FACTORING POLYNOMIALS USING A GCF NOTES

In this section, you will learn how to factor (divide) a polynomial by the GCF (Greatest common Factor). Let's get started!

To begin, we must understand what a GCF of a polynomial is. The GCF of a polynomial is the largest monomial (number and variable, if applicable) that can factor (divide) into each term of the polynomial evenly.

Steps for factoring a polynomial using the GCF $16y^3z^2 + 24y^2$

Step 1: Factor out a the GCF of the coefficients for the terms

For the given polynomial the coefficients are 16 & 24. So, consider the factors of each number and identify the GCF.

Factors of 16: 1, 2, 4, 8, 16 Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24 <u>The GCF of both is 8</u>. Remember 8!

Step 2: Factor out the common variables for the terms.

Now, we must factor out the GCF of the variables. For this consider how same variable and their exponents. You can only factor until one term runs out of that variable!

Our first variable is y. The first term has 3 and the second term has 2. So, we can only factor out $\underline{y^2}$. Remember, y^2 !

Our second variable is z. The first term has 2. However, the second term has D. So, we cannot factor out any of the variable z, as it isn't common to both terms.

Step 3: Factor the GCF from the polynomial & Rewrite your polynomial

Given: $16y^3z^2 + 24y^2$ GCF: $8y^2$

Factored polynomial using GCF: $8y^2(2yz^2 + 3)$

Notice, that both coefficients were divided by $\hat{8}$, their GCF. The variable y subtracted the exponents per our quotient of powers rule.

Great job!

Let's try one more!

Factor $121a^2b^5c - 33ab^3c$ GCF of the coefficients is 11 & GCF of the variables is ab^3c Factored we get: 11 ab^3c (11 $ab^2 - 3$).

541	Vrite the let	ter in 1	the mat	Sur ion	quinu	ered	ox at	the b	ottom	of th	e page	3	13 Ans	wers	K,			,
a. $x^2 - 6x$	II. x ³	T.	3x ² +	10)			n ³ n +	- 9m	n			0 . 5	$m^2 n^2$	-	(4 -	11m ²	n ²)	
b. 2 <i>x</i> ² + 8 <i>x</i>	6. 2x ² 24. 2x	0 ×	x - 6 $8x^{2} +$) 15x)		- -	0m ³ 1	1	25m ²	n^3		7. 2. 16: 7	4n mn ⁴	a' si	(7m ⁻ (2m	⁴ + 4 <i>i</i> - 5 <i>m</i>	u) 12)	
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4 $36a^3 - 24a^4 + 60a^5$	q. 3a ² 4. 4a	ы со т	$2a^{5} - 6a^{4} +$	-5a ⁴ -10a ²	- 1) (- 3)	4	44x ⁶	3y2 +	27x	+ ⁴ + 1	9x ²	25. 3 23. 1	x ³ y²		2x ² 3x ²	– ij ²) – 7xij	- 4y²	(
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Factoring Polynomials: Factoring Out a Monomial

13.2

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FACTORING POLYNOMIALS BY GROUPING NOTES

In this section we will be learning how to factor polynomials with four terms. Before today, you have only been factoring trinomials, so let's look at how to factor a polynomial if you have four terms!

Before we begin, recall our section when we factored out the GCF of a polynomial, that skill will be used again with this section. So, let's give it shot.

Given the polynomial, $x^3 + 4x^2 + 2x + 8$, we are going to factor using a grouping method. How do we do this? I want you to see if you can take this polynomial of four terms and make two groups of two terms by a common factor.

$$(x^3 + 4x^2) + (2x + 8)$$

I grouped the first two terms and the second two terms, because I noticed each have a factor in common.



I see that between $(x^3 + 4x^2)$ there is a common factor of x^2 . I see that between (2x + 8)there is a common factor of 2.

Now, that I have these terms **grouped** by a common factor, I am going to factor out the identify common factor.

 $(x^3 + 4x^2) + (2x + 8)$ $x^2(x + 4) + 2(x + 4)$

Do you notice, how after I factored out the identified GCF, both binomials remaining are (x+4)? That's a good sign that this was completed correctly!

Next step is to factor out that common binomial (x + 4) $\frac{x^2(x + 4) + 2}{(x + 4)}$ Notice, as I factor those out all that remains is a sum of the factored GCFs. $(x+4)(x^2 + 2)$

And, there you go! $(x+4)(x^2+2)$ is the answer!

Let's try this again, with identified steps!

 $\begin{array}{r} 18y^2 + 21y + 30yz + 35z \\ \text{Step 1: Group terms by a common factor (the GCF)} \\ (18y^2 + 21y) + (30yz + 35z) \\ \text{Step 2: Factor out the GCF} \\ (18y^2 + 21y) + (30yz + 35z) \\ 3y(6y + 7) + 5z(6y + 7) \\ \text{Step 3: Factor out the common binomial} \\ (18y^2 + 21y) + (30yz + 35z) \\ 3y(6y + 7) + 5z(6y + 7) \\ (6y + 7)(3y + 5z) \end{array}$

There ya go! The answer is: (6y + 7)(3y + 5z)

K -e -- x 2+ E ~ x Coovright 2015 Math Giraffe Factor each expression. Be careful to factor completely - Some expressions have a greatest common factor. Write the factors on the lines, then highlight the boxes in the grid containing each factor. When you are finished, write the letters that are 3a4+8 a3+3 3a²b-2 5+ YB 5a+2 formed by the highlighted boxes in order to create a word. × ж × × × 2-122 Q -3 2x+9 1+1 * 1.1 2+9 + ě 12ay Class: P2-1 ab - 3 2a + b \$+9X S+ 10 $y^4 + y^3 + 2y^2 + 2y$ $7x^2 + 14x + xy + 2y$ 5ab - 10a + 2b - 4 $3a^2 + 3ab + a + b$ × × × × × $a^4 + b$ x2y2+1 5a²+3 2ab2+1 b + 3ab 5b3.b y10 - 7 7x2+5 b7 - 5 21 22 3 24 Z+X Name: Date: 354-3 2ab - 1 49+1 2x+y 4 * × × × × ... × -* 2 x⁸+5 562+3 3x - z 2x+y xya³ $x^5y^4 + x^3y^2 + x^2y^3 + y$ $Ba^{3}b + 12a^{2}b^{2} - B_{3} - B_{5}$ × × × $2a^{2}b^{2} + 4ab^{2} + a + 2$ × × 12a² + Bab - 3Ba - 18b 14x4 - 8x3 + 21x - 12 $5b^3 + 10b^2 + 3b + 8$ $2x^2 + 2xy - 3x - 3y$ ax-2 x*.3 Z1xy + By + Bx + Z 3a+4b Bab + I $x^7 - x^6 + 5x - 5$ 4ab + a - 24b - B 7x-4 3x+1 q + e A + XB K+XL 462+1 2 × 2 × 2 4 5 9 5 × × = -<u>m</u> × x8-4 y2+2 1+ A.c.x 36+1 à ¥4 Ps -5 y3 3ab - 9 2x3+3 abx - 4 E+ Krs 3a+1 × × × × × x $7a^2x^3 \cdot 14ax^2 + 5a^2x - 10a$ 5 53 2 - $20x^2y + 4xa + 10xy^2 + 2ay$ 2a+1 $4x^2y - 2x_1 + 2xy^2 - \gamma_1$ $12b^5 + 3b^3 + 28b^2 + 7$ 2x-3 8+92 ×+13 $a^4x + a^3y + 3ax + 3y$ $x^8ab + 5ab - 3x^8 - 15$ $3a^{6} + 3a^{4} + 8a^{2} + 8$ ă $10a^3 + 5a^2 + 5a + 3$ Ba²b + Bab - 3a - 4 363+7 Sax - b 6a² + x 1.29 7y - x2 ¥+X a2 +1 3a + 4 9-2 N 3 ŝ ---5

DAYS 24 & 25: Factoring Polynomials Completely FACTORING COMPLETELY REVIEW

In today's & tomorrow's assignment, you will be combining all of the factoring methods to survive a ZOMBIE APOCALYPSE!! You will solve a series of factoring polynomials problems as you tread your ways toward or away from the zombies! Remember, any method can be used. Be careful, one wrong turn and the zombies will get you! Good news though, if you try the problem again, you can save yourself. Good luck!

<u>Directions to create Flip Book</u> Cut out each book page (You'll notice the page numbers) Put flip book in order by page number Staple the left side Viola!

DIRECTIONS TO COMPLETE FLIP BOOK START ON PAGE 1! IF YOU DO NOT, YOU'LL OVERWORK YOURSELF. AS YOU WORK, SHOW YOUR WORK ON THE BACK OF THE PAGE OR ON A SEPARATE SHEET OF PAPER. WHEN YOU GET AN ANSWER, YOU HAVE ANSWER CHOICES ON THAT PAGE. IF YOU DO NOT SEE IT, TRY AGAIN. IF YOU DO SEE YOUR ANSWER, SKIP TO THE PAGE NUMBER INDICATED. THIS IS SIMILAR TO READING A GOOSEBUMPS BOOK. YOU'LL SKIP AROUND!



Please use the template that I have attached to complete the assignment. Also, use any previous notes and the textbook. Have jun!





Start on page 2. Work through the given Factoring Polynomials problem. Go to the page that matches your answer. If your answer is correct you will Zombie Flip Book be taken to the next problem in the story. If your answer is incorrect you will be eaten alive by zombies and have to try again. Do everything right and you just might survive... Continue to work your way through the book until you reach the end of the story. 1 Good Luck! Your teacher has a plan... She will divert the zombies while you sneak back into the school. Rumor has it that your science Outside is no better! Looks like the zombie apocalypse wasn't just at the school. You look teacher was a super genius and had developed a zombie cure. There might still around for an escape route... be hope ... $-2x^{3}-24x^{2}-64x$ $32x^2 - 18$ Pg #33) -2(x3+12x2+32x) Pg =31) 18(x2-1) Pg #40) 18(x+1)(x-1) Pg #35) -2x(x+4)(x+8) Pg #19) 2(16x2-9) Pg #40) -2x(x-4)(x-8) Pg #37) 2(4x-3)(4x-3) 5 3 Pg =10) -2x(x2+12x+32) Pg #26) 2(8x-9)(8x+9) Luckily all those zombie apocalypse drills your Eurekal You find the cure. It's contained in school has been doing paid off. You barricade a model rocket. The only instructions are the door and look around the room for a zombie fighting tool. All you find is... "To kill zombies...launch and run." You head autside to launch the cure... 18m³-54m²-42m+126 24x²-80x+19 Pg =27) 6(3m3-9m2-7m+2) Pg #24) (3x-1)(8x-19) Pg #H) (18m2-42)(m-3) Pa =36) (8x-1)(3x-19) Pa =40) Not factorable 9 Pg #12) (8x-19)(3x-1) 7 Pg #25) 6(3m²-7)(m-3) Pg #29) Not Factorable Guessing really isn't a good option when picking answers or fighting zombies. You "Guessed' that the rocket fuse would light easily but it didn't. While you try to light the fuse the zombies enclose you in a circle...So close but yet so far. At the same time your realize he's a zombie you remember that you can only do difference of squares when you are subtracting. He may be a zombie janitor but he runs faster than you... Go back and try again! Go back and try again! (without guessing) 13 11







DAYS 26: Chapter 7 Vocabulary Assignment CHAPTER 7 VOCABULARY CHOICE BOARD

Choose ONE activity for Day #26

(Vocabulary words are on the next page)

Quiz - Create a mini-quiz, with an answer key, for a classmate that uses at least 10 vocabulary words.	<i>Sort It</i> - Sort your vocabulary into three categories that make sense to you. Explain why you chose those categories.	Super Sentences – Write a sentence for 10 of the vocabulary words. Show that you know the meaning of the word in the sentence by using context clues.
<i>Illustrations</i> – Draw a picture to show the meaning of at least 10 vocabulary words.	Crossword – Make a crossword puzzle on puzzlemakers.com for someone to solve using all of your words. HINT: It is called Criss Cross.	<i>Picture It</i> – Find a picture in a magazine or newspaper to represent each word, then glue them down to make a collage.
Flashcards – Create Flashcards for your vocabulary words and then use them to study.	Poem – Choose 5 vocabulary words and write an acrostic poem for each one that explains what the word means.	Real World - Choose 10 vocabulary words and give a real-world situation when you would use that word.

Chapter 7 Vocabulary

These are 17 words that we have gone over in this chapter. You will find these terms throughout your textbook under <u>core vocabulary</u> and <u>previous</u> vocabulary

Monomial **Degree of a Monomial** Polynomial Binomial Trinomial **Degree of a Polynomial** Standard Form Leading Coefficient Closed FOIL Method **Factored Form Zero-Product Property** Roots **Repeated Roots Greatest Common Factor (GCF) Factoring by Grouping Factored completely**