

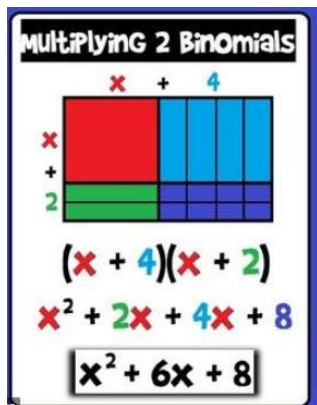
Content Area & Materials	Learning Objectives	Tasks	Check-in Opportunities	Submission of Work for Grades	
<div>Digital</div> <div>(If you can work digitally, please do. It will help to keep us all safe 😊)</div> <div><ul style="list-style-type: none">Khan Academy (KA) Access Code Period 4: ZW3XF7WD Period 5: 5SPC2CFNSummary Assignment Posted on Classroom Website and sent via Remind App.</div>	<div>Suggested Order / Pacing Factoring</div> <div><ul style="list-style-type: none">Multiply Binomials (Monday)Multiply Difference of Squares (Tuesday)GCF Factoring Introduction (Wednesday)Factoring Quadratics (Thursday)Summary Assignment (Friday)</div>	<div><ul style="list-style-type: none">Students are to complete the assigned KhanAcademy assignments.After completing the KhanAcademy assignments, please complete the summary assignment.</div>	<div>Mrs. De La Mora is available during the office hours at the times indicated below.</div> <div><ul style="list-style-type: none">10:00 am-12:00 pm Monday-FridayRemind App CODE: 46c792adelamora@tusd.netPhone</div>	<div><ul style="list-style-type: none">KA assignments will be recorded with the highest scores attainedSubmit the summary assignment through a picture via Remind App. (Scored on Accuracy)</div>	
<div>Hard Copy (Please only use this if you do not have technology available)</div> <div><ul style="list-style-type: none">Notes + ExamplesAssignments</div>	<div>Suggested Order / Pacing Factoring</div> <div><ul style="list-style-type: none">Multiply Binomials (Monday)Multiply Difference of Squares (Tuesday)GCF Factoring Introduction (Wednesday)Factoring Quadratics (Thursday)Summary Assignment (Friday)</div>	<div><ul style="list-style-type: none">Students are to read the lesson and examples providedOn a separate sheet of paper for each assignment, complete ALL problems showing your work.</div>	<div>Mrs. De La Mora is available during the office hours at the times indicated below.</div> <div><ul style="list-style-type: none">10:00 am-12:00 pm Monday-FridayRemind App CODE: 46c792adelamora@tusd.netPhone</div>	<div><ul style="list-style-type: none">Group your work together for your math class IN ORDER, and with the following labels clearly displayed:</div> <div>Student Name: Teacher Name: Class Name/Subject: Period: Assignment Week #</div> <div><ul style="list-style-type: none">Assignments will be scored on accuracy.</div>	
<div>Scheduled, if possible,</div> <div><ul style="list-style-type: none">Discussion</div>	Zoom classes can be held during tutoring hours. Schedule your meetings by visiting the class website: kimballmath.wordpress.com Discussions will revolve around discovery and application of concepts assigned for the week.				
Scaffolds & Supports	KA assignments can often be re-tried to improve learning. Videos are utilized to demonstrate not only key concepts, but also frequent points of errors, helping students avoid pitfalls.				
Teacher Office Hours 2 hours daily (all classes): <ul style="list-style-type: none">ContactPlatform	Monday 10:00 am-12:00 pm	Tuesday 10:00 am-12:00 pm	Wednesday 10:00 am-12:00 pm	Thursday 10:00 am-12:00 pm	Friday 10:00 am-12:00 pm

Name:
Teacher:
Subject: Algebra 1
Period:
Week#1

NOTES: Complete all work on a separate sheet of paper. Include the heading provided on each page you turn in. SHOW ALL WORK.

Monday

Area Model ~ Box Method



Distribution Method

$$\begin{aligned} (x+2)(x+4) &= x \cdot (x+4) + 2(x+4) \\ &= x \cdot x + x \cdot 4 + 2 \cdot x + 2 \cdot 4 \quad \text{distribute} \\ &= x^2 + 4x + 2x + 8 \quad \text{combine like terms} \\ &= x^2 + 6x + 8 \quad \text{Answer} \end{aligned}$$

Tuesday

Difference of Squares Pattern

The "difference of squares" pattern:

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

Expand the expression.

$$\begin{aligned} (c-5)(c+5) \\ &= c(c) + c(5) - 5(c) - 5(5) \\ &= c(c) + 5c - 5c - 5(5) \\ &= c^2 - 25 \end{aligned}$$

Wednesday

Factoring GCF (Area Model + Algebraic Model)

Use the relationship of multiplication and factors to find the missing information.

Fill in the missing information for each: dimensions, area as product, and area as sum

1.	$\begin{array}{ c c } \hline x & 6 \\ \hline \square & \square \\ \hline \end{array}$	2.	$\begin{array}{ c c } \hline \square & \square \\ \hline 5 & 5x \quad 20 \\ \hline \end{array}$	3.	$\begin{array}{ c c } \hline \square & 8 \\ \hline \square & 6x \quad 48 \\ \hline \end{array}$	4.	$\begin{array}{ c c } \hline x & \square \\ \hline \square & 10x \quad 30 \\ \hline \end{array}$
	$2(x+6)$						
	$2x+12$						

- Always First step in factoring
- Reverse of distributive property

Example, Factor the gcf

$4x + 10$	$\longrightarrow 2(2x + 5)$	<u>gcf</u> 2
$6x^2 + 3x$	$\longrightarrow 3x(2x + 1)$	3x
$x^3y - xy$	$\longrightarrow xy(x^2y - 1)$	xy

NOTE: need to know properties of exponents

Thursday

Factor. $2x^2 + 13x + 6$

Split the Middle

$$2x^2 + 13x + 6$$

$$2x^2 + 1x + 12x + 6$$

$$x(x+1) + 6(2x+1)$$

$$(x+6)(2x+1)$$

Box

$$2x^2 + 13x + 6$$

$$\begin{array}{|c|c|} \hline 2x^2 & 1x \\ \hline 6 & 6 \\ \hline \end{array}$$

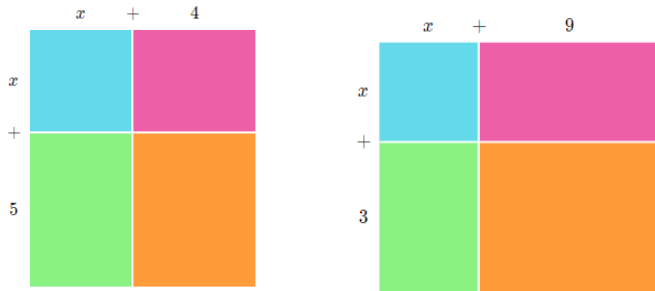
$$(x+6)(2x+1)$$

Student Name:
Teacher Name:
Class Name/Subject: Algebra 1
Period:
Assignment Week #: 1

Complete all work on a separate sheet of paper. Show all work.
Include the heading provided on each worksheet you turn in.

Monday

1. Use the box method (area model) to multiply and represent the area of each rectangle.



2. Multiply each of the binomials. Write your answer in standard form.

- a) $(x-1)(x+4)$
- b) $(x+5)(x+3)$
- c) $(x-3)(x-4)$
- d) $(x+3)(x-5)$

3. Multiply each of the binomials. Write your answer in standard form.

- a) $(3b-4)(b+2)$
- b) $(6f-7)(8f-9)$
- c) $(-8k+1)(-8k+1)$
- d) $(9+m)(-m+9)$

Tuesday

1. Multiply each of the binomials. Write your answer in standard form.

- a) $(x+3)(x-3)$
- b) $(x+5)(x-5)$
- c) $(x+8)(x-8)$
- d) $(4+x)(4-x)$

2. Multiply each of the binomials. Write your answer in standard form.

- a) $(7+x)(7-x)$
- b) $(2+x)(2-x)$
- c) $(2x+5)(2x-5)$
- d) $(3x+7)(3x-7)$

3. Multiply each of the binomials. Write your answer in standard form.

- a) $(5x+1)(5x-1)$
- b) $(3+4x)(3-4x)$
- c) $(2+7x)(2-7x)$
- d) $(1+6x)(1-6x)$

Student Name: Teacher Name: Class Name/Subject: Algebra 1 Period: Assignment Week #: 1	Complete all work on a separate sheet of paper. Show all work. Include the heading provided on each worksheet you turn in.
Wednesday	Thursday
<p>1.) Karen was trying to factor $6x^2 + 10$. She found that the greatest common factor of these terms was 2 and made an area model:</p> <div style="text-align: center;"> <p>Width</p> </div> <p>What is the width of Karen's area model?</p>	<p>1.) The rectangle below has an area of $x^2 - 7x + 10$ square meters and a width of $x - 5$ meters.</p> <div style="text-align: center;"> <p>Length</p> </div> <p>Find the length.</p>
<p>2.) Olivia was trying to factor $6x^2 - 18$. She found that the greatest common factor of these terms was 6 and made an area model:</p> <div style="text-align: center;"> <p>Width</p> </div> <p>What is the width of Olivia's area model?</p>	<p>2.) The rectangle below has an area of $x^2 + 8x + 15$ square meters and a width of $x + 3$ meters.</p> <div style="text-align: center;"> <p>Length</p> </div> <p>Find the length</p>
<p>3.) Avery was trying to factor $4x^2 + 20x - 16$. He found that the greatest common factor of these terms was 4 and made an area model:</p> <div style="text-align: center;"> <p>Width</p> </div> <p>What is the width of Avery's area model?</p>	<p>3.) The rectangle below has an area of $x^2 - 4x - 12$ square meters and a length of $x + 2$ meters.</p> <div style="text-align: center;"> <p>Length</p> </div> <p>Find the width.</p>
<p>4.) Factor the greatest common factor. Write your answer in standard form.</p> <p>a) $2x^2 + 8x$ b) $10x^2y - 15xy^2$ c) $6x + 3$</p>	<p>4.) Factor as the product of two binomials.</p> <p>a) $x^2 - 3x + 2$ b) $x^2 - 9x + 20$ c) $x^2 - 10x + 21$</p>
<p>5.) Factor the greatest common factor. Write your answer in standard form.</p> <p>a) $36x^4 - 42x^2$ b) $2x^2 - 8$ c) $25 + 5x^2$</p>	<p>5.) Factor as the product of two binomials.</p> <p>a) $x^2 + 10x + 24$ b) $x^2 + 11x + 18$ c) $x^2 + 3x + 2$</p>
<p>6.) Factor the greatest common factor. Write your answer in standard form.</p> <p>a) $12x^2 - 9x + 15$ b) $10x^2 + 35x$ c) $4x + 10$</p>	<p>6.) Factor as the product of two binomials.</p> <p>a) $x^2 - 3x - 10$ b) $x^2 + 3x - 4$ c) $x^2 - x - 42$</p>

Summary Assignment Week#1 SHOW YOUR WORK on a <u>separate sheet of paper.</u>		Student Name:	
		Teacher Name:	De La Mora
		Subject:	Algebra 1
		Period:	
		Week:	1
Multiply each of the binomials	$(-4m + 1)(4m - 1)$	$(6x + 2)(3x - 1)$	
Factor the greatest common factor	$4m^2 - 16$	$4n^2 - 100$	
	$x^2y + 3xy$	$16bc^2 + 24bc$	
Factor the Quadratic	$n^2 + 9n + 20$	$y^2 - 11y + 10$	
	$g^2 + g - 6$	$c^2 + 4c - 45$	