Quick Announcements...

Ms. K will not be here until Monday.

rPortal is updated with all grades (including Unit 7 Test).

Everything is shifted TWO days on your agenda. HW 5.2 will be due next week - Quiz TUESDAY.

HW Help will be on twitter & you can always rewatch videos shown in class.

Check with other teachers for tutoring times (including Mrs. Cole!)

We are setting up Unit 8 today - page 94 is blank.

Quick Announcements...

Name: _____ Class Period: _____

5.2

Algebra I Agenda

				Stamp
Monday	2/23/2015	Objective:	Greatest Common Factor	
		Assignment:	Practice #1-9	
Tuesday	2/24/2015	Objective:	Four-Term Factoring	
		Assignment:	Practice #1- 12	
Wednesday	2/25/2015	Objective:	Factoring Trinomials	
		Assignment:	Practice #1-12	
Thursday	2/26/2015	Objective:	Factoring Completely	
		Assignment:	Practice #1-10	
Friday	2/27/2015	Objective:	Quiz	
		Assignment:	5.2 Due ~~Today~~ next week	

wed
Thurs
Fri
mon
Tues

Warm-Up Grade: _____ Final Weekly HW Grade: _____

On page 95&96, set up unit 8 in your notebook. Page 94 is blank!!

Put your "8" tab on page 95 (fold along the dotted line)

UNIT 8

TITLE: Factoring

95

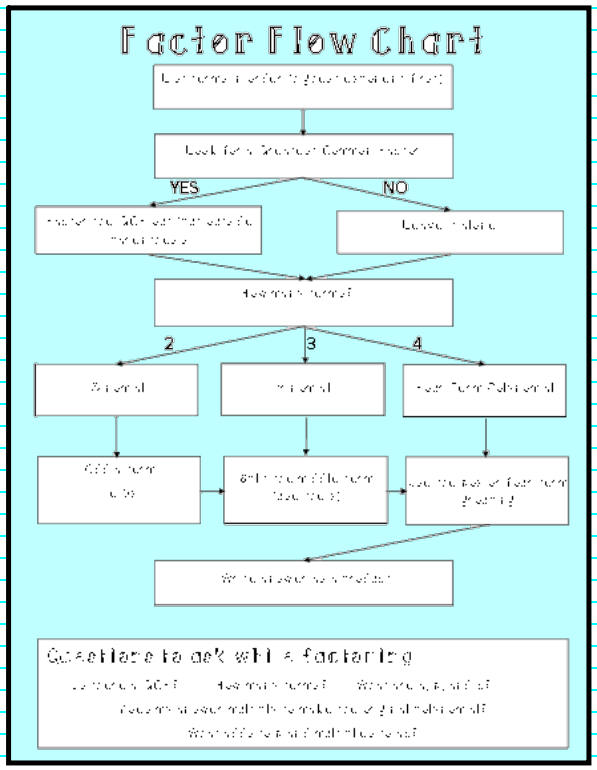
Page #	Page Title
96	Factoring Flow Chart
97	Greatest Common Factor

Blue

On page 95&96, set up unit 8 in your notebook. Page 94 is blank!!
Put your "8" tab on page 95 (fold along the dotted line)

96

Factoring Flow Chart



Greatest Common Factor p.97

~~Essential Question:~~ How do I factor (undistribute) a polynomial expression using GCF?

Greatest Common Factor (GCF) - The product of the greatest integer and the greatest power of each variable that divides evenly into each term.

(whole #) multiply

Find the GCF of the given monomials

1. 16, 24

8

Biggest number on both charts

2. $15y^3$, $-20y^2$

$5y^2$

3. $21p^2q$, $35pq^2$

$7pq$

Factor the polynomial expression.

4. $24a^2x^3 - 56ax^2 - 8x$

$8x(3a^2x^2 - 7ax - 1)$

5. $14xz - 18xz^2 + 4x^2z$

$2xz(7 - 9z + 2x)$

6. $2x^4 - 4x^3 - 12x^7$

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

7. $22ax^2 - 44x + 11ax$

$11x(2ax - 4 + a)$

8. $-10e^5 - 6e^3 - 8e$

$2e(-5e^4 - 3e^2 - 4$

All negative ⇒ take out neg.

$-2e(5e^4 + 3e^2 + 4)$

#1-9 @MSKmath

Algebra I - Unit 8: Topic 1 – Greatest Common Factor

Practice – Greatest Common Factor **pp 524 – 537**

Name _____ Date _____ Period_____

Find the GCF of the given monomials.

1. $6x^2y$, $42x^2$
2. $8x^4y^3$, $4x^3y^3$, $12x^2y^3$
3. $9r^4s^2d^6$, $56w^2n^4$

Factor the polynomial expression.

4. $12h^4 + 8h^2 - 6h$
5. $-15f - 10f^2$
6. $32a^3b^2c^3 + 40a^2bc^3 - 16abc$
7. $32jk^2 - 16j^2k + 2jk$
8. $12x^3y^2z^4 + 8x^3yz^2$
9. $9a^5 + 27a^3 - 45a^2$

A. $9(a^5 + 27a^3 - 45a^2)$

B. $9a^2$

C. $9a^2(a^3 + 3a - 5)$

D. $3a^2(3a^3 + 9a - 15)$

HW Help: Greatest Common Factor

No work = no credit = no kidding!

1. $6x^2$
2. $4x^2y^3$
3. 1 ... there are no numbers or letters in common.
4. $2h(6h^3 + 4h - 3)$
5. $-5f(-3 - 2f)$
6. $8abc(4a^2bc^2 + 5ac^2 - 2)$
7. $2jk(16k - 8j + 1)$
8. $4x^2yz^2(3yz^2 + 2)$
9 C.

Questions? Come to tutorials!