# **Great**Hearts<sup>®</sup>

## Algebra 9:

## April 14 - 17

Time Allotment: 40 minutes per day

Student Name:

Teacher Name: Mrs. Hudson

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## Chapter 10: Inequalities

## **Packet Overview**

Date	Objective(s)	Page Number
Monday, April 13	No school Holiday	
Tuesday, April 14	Chapter 10-7 Continued: Be able to graph linear inequalities in two variables.	2 - 5
Wednesday, April 15	Chapters 10-8: Be able to graph the solution set of two linear inequalities in two variables.	6 - 8
Thursday, April 16	Chapter 10: Review sections 1-8	9 - 12
	Quiz Tomorrow, Friday, April 17 <sup>th</sup> on 10-1 through 10-8	
Friday, April 17	Chapter 10 Quiz: Sections 1-8	13 - 15

#### **Additional Notes:**

- \* Materials: Printed packet or notebook paper; pencils. (Calculators not needed).
  - Note: If you are using notebook paper, be sure to write the pages and numbers of the material.
  - **Example:** P. 6; #1) \_\_\_\_\_
- \* Answers are given at the end of each assignment.
- Quiz: Located on pages 13-15. This should be taken *without* looking at previous work. No answers are provided for the test.

#### **Academic Honesty**

I certify that I completed this assignment independently in accordance with the GHNO Academy Honor Code. I certify that my student completed this assignment independently in accordance with the GHNO Academy Honor Code.

Student signature:

Parent signature:



### Algebra Unit: Inequalities

#### **Unit Overview: Inequalities**

We are now starting Chapter 10, Inequalities. In this chapter, you will:

- 1) Review the concept of order and to graph inequalities in one variable,
- 2) Transform inequalities in order to solve them,
- 3) Solve problems that involve inequalities,
- 4) Find the solution sets of combined inequalities,
- 5) Solve equations with inequalities involving absolute value,
- 6) Extend your skill in solving open sentences that involve absolute value,
- 7) Graph linear inequalities in two variables,
- 8) Graph a solution set of a system of two linear inequalities in two variables.

### Monday, April 13

No School -- Holiday

### Tuesday, April 14

### Algebra Unit: Inequalities

#### Lesson 10-7 Continued: Absolute Value in Open Sentences

**Objective:** Be able to graph linear inequalities in two variables.

- > Welcome back! Today is just review of what we were working on last week.
- > Open your text to p. 493. Study the even numbers and complete/correct the odd numbers.
  - See next page!

#### April 13-17



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Remember to check your answers in the back of your book!



### Wednesday, April 15

### Algebra Unit: Inequalities

Lesson 10-8: Systems of linear equations.

**Objective:** Be able to graph the solution set of two linear inequalities in two variables.

- This section is very similar to 10-7. The only change is that you will graph TWO inequalities. The correct section will be where BOTH REGIONS are shaded.
- ➤ I will show you a few. See page 496.



### April 13-17





#### April 13-17





I hope that you enjoyed the coloring! Remember, LESS THAN is when you color under the line, GREATER THAN is when you color above the line. The points in the DOUBLE COLORED section will work in BOTH equations. CHECK YOUR ANSWERS!!! See you tomorrow!



### Thursday, April 16

### Algebra Unit: Inequalities

Lesson: Review 10:1-8: Inequalities

**Objective:** Be able to solve inequalities, solve combined inequalities, solve equations and inequalities involving absolute value, solve and graph linear inequalities, and graph systems of linear inequalities.

> Page $501 - 502$ : Chapter Review Be sure to notice the numbers that I have assigned.		
1)	3)	
4)	6)	
7)	10)	
()	10)	
11)		

Answers: 1) C 3) C 4) B 6) A 7) B 10) B 11) B CONTINUE...

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> Page 502: Chapter Test... Again, check the numbers that I placed in the boxes.



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### Friday, April 17

### Algebra Unit: Inequalities

#### Lesson: QUIZ 10:1-8: Inequalities

**Objective:** Be able to solve inequalities, solve combined inequalities, solve equations and inequalities involving absolute value, solve and graph linear inequalities, and graph systems of linear inequalities.

- ➢ Hello! Time for a quiz.
- Please put everything away except for a pencil and this page or a piece of notebook paper.
- $\succ$  Take your time  $\bigcirc$ !
- ➢ BOX YOUR ANSWERS!

1) True or Folco?	2) Solve the inequality and graph its solution
1) The of Faise?	2) Solve the mequality and graph its solution
	set.
-10.5 < -10 < -9	
	4x < -20
	$\langle + + + + + + + + + + + + \rangle$
3) Solve the inequality and graph its solution	(1) Solve each open sentence and graph its
5) Solve the inequality and graph its solution	4) Solve each open sentence and graph its
set.	solution set.
$\frac{m}{2} - 5 > -2$	$-4 \le 3x - 1 < 5$
3 3 2 2	
$\langle \cdot \rangle$	

April 13-17





You did it!!! Have a great weekend!