### Warm Up

70	35	41
× 11	× 52	× 41

74	42	54
× 26	× 93	× 42

# Warm Up Answers

70	35	41
× 11	× 52	× 41
70	70	41
700	1,750	1,640
770	1,820	1,681
74	42	54
× 26	× 93	× 42
444	126	108
1,480	2 700	2,160
	3,780	<b>2</b> ,100

#### Homework Answers 1.4 Record and Practice Journal

List the factor pairs of the number.		
1. 6	<b>2.</b> 7	3. 10
$1 \cdot 6, 2 \cdot 3$	1.7	$1 \cdot 10, 2 \cdot 5$
4. 16	5. 35	6. 55
1 • 16, 2 • 8,	1 • 35, 5 • 7	1 • 55, 5 • 11
4•4		
Write the prime factorization	on of the number	
7. 9	8. 24	9. 40
3 <sup>2</sup>	$2^3 \cdot 3$	$2^3 \cdot 5$
3-	2. • 3	2°•5
10. 44	<b>11</b> . 50	<b>12.</b> 65
$2^2 \cdot 11$	$2 \cdot 5^2$	5 • 13
2 11	2 3	0 10
13. A fitness instructor arr	anges 30 people into rows. I	Each row has the same
number of people.		
a. Can the instructor a	rrange the people into rows	s of 6?
yes		
b. Can the instructor arrange the people into rows of 9?		
no		

Lesson 1.5

September 27, 2016

**Essential Question:** 

How can you find the greatest common factor of two numbers?

Lesson 1.5

September 27, 2016

### Lesson Objective:

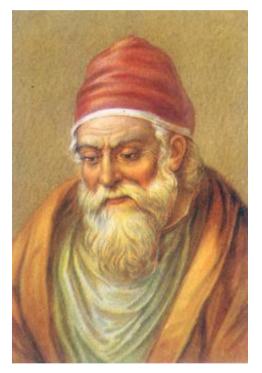
Students will be able to:

use Euclid's Ladder to find greatest common factors of two numbers.

#### Self-Evaluation Scale

Score	Description
4	I can teach other students how to use Euclid's Ladder to find greatest common factors of two numbers.
3	I can use Euclid's Ladder to find greatest common factors of two numbers.
2	I recognize, but still need help to use Euclid's Ladder to find greatest common factors of two numbers.
1	I do not know how to use Euclid's Ladder to find greatest common factors of two numbers.

#### Euclid



also known as Euclid of Alexandria, was a Greek mathematician, often referred to as the "Father of Geometry".

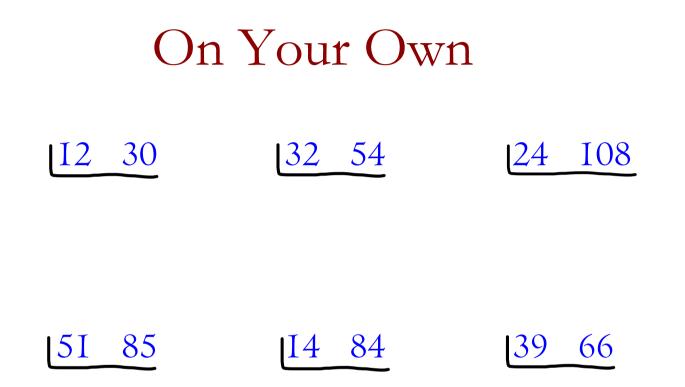
September 27, 2016 Lesson 1.5

Learning Objective: Students will be able to use Euclid's Ladder to find greatest common factors of two numbers.

#### Euclid's Ladder



14 35



# Assignment

#### Complete problems I3, I5, I6, 23, 25, 26, 31, & 33 on pages 34 & 35 in your Big Ideas Text Book.

Lesson 1.5

September 27, 2016

## Essential Question:

# How can you find the greatest common factor of two numbers?

Lesson 1.5

September 27, 2016

### Lesson Objective:

Students will be able to:

use Euclid's Ladder to find greatest common factors of two numbers.

#### Self-Evaluation Scale

Score	Description
4	I can teach other students how to use Euclid's Ladder to find greatest common factors of two numbers.
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#### Homework

In your Big Ideas Record and Practice Journal page 22.