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

Warm Up

70	35	41
× 11	× 52	× 41

74	42	54
× 26	× 93	× 42

Aug 27-1:29 PM

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

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	3,780	2,160
1,924	3,906	2,268

Sep 8-8:29 AM

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

Homework Answers

1.4 Record and Practice Journal

List the factor pairs of the number.

1. 6 — $1 \cdot 6, 2 \cdot 3$
2. 7 — $1 \cdot 7$
3. 10 — $1 \cdot 10, 2 \cdot 5$
4. 16 — $1 \cdot 16, 2 \cdot 8, 4 \cdot 4$
5. 35 — $1 \cdot 35, 5 \cdot 7$
6. 55 — $1 \cdot 55, 5 \cdot 11$

Write the prime factorization of the number.

7. 9 — 3^2
8. 24 — $2^3 \cdot 3$
9. 40 — $2^3 \cdot 5$
10. 44 — $2^2 \cdot 11$
11. 50 — $2 \cdot 5^2$
12. 65 — $5 \cdot 13$

13. A fitness instructor arranges 30 people into rows. Each row has the same number of people.
   a. Can the instructor arrange the people into rows of 6? **yes**
   b. Can the instructor arrange the people into rows of 9? **no**

Sep 8-8:30 AM

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

Lesson 1.5   September 26, 2016

Essential Question:

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

Aug 27-1:32 PM

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

Lesson 1.5   September 26, 2016

Lesson Objective:

Students will be able to:

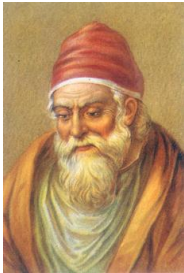Use Euclid's Ladder to find greatest common factors of two numbers

Sep 22-8:40 AM

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.

Aug 27-1:32 PM

Learning Objective: Students will be able 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".

Sep 8-8:49 AM

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

Euclid's Ladder

$\lfloor 12 \quad 20$ $\lfloor 14 \quad 35$

Aug 27-1:32 PM

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

On Your Own

$\lfloor 12 \quad 30$ $\lfloor 32 \quad 54$ $\lfloor 24 \quad 108$

$\lfloor 51 \quad 85$ $\lfloor 14 \quad 84$ $\lfloor 39 \quad 66$

Aug 27-1:32 PM

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

Assignment

Complete problems 13, 15, 16, 23, 25, 26, 31, & 33 on pages 34 & 35 in your Big Ideas Text Book.

Aug 27-1:32 PM

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

Lesson 1.5   September 26, 2016

Essential Question:

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

Aug 27-1:32 PM

Lesson 1.5   September 26, 2016

Lesson Objective:

Students will be able to:

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

Aug 27-1:32 PM

Self-Evaluation Scale

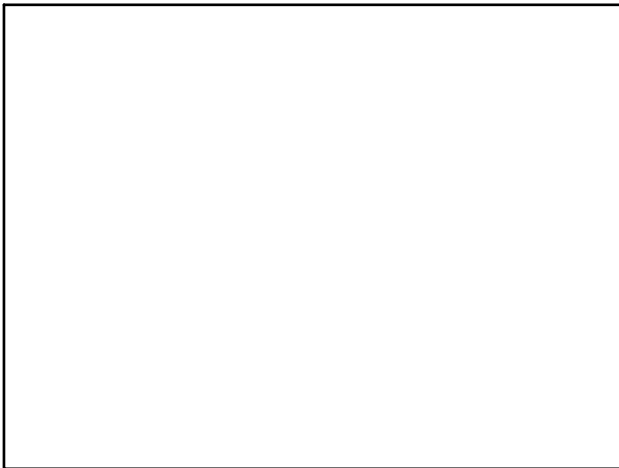| Score	Description
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Aug 27-1:32 PM

Homework

In your Big Ideas Record and Practice Journal page 22.

Aug 27-1:32 PM

Sep 26-1:58 PM