September 22, 2015 TPA Lesson 1.5

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

Warm Up

$$\begin{array}{ccccc}
70 & 35 & 41 \\
\times 11 & \times 52 & \times 41
\end{array}$$

Warm Up Answers

35

41

70

$$\begin{array}{c|cccccc} \times 11 & \times 52 & \times 41 \\ \hline 70 & 70 & 41 \\ \hline 700 & 1,750 & 1,640 \\ \hline 770 & 1,820 & 1,681 \\ \hline \\ 74 & 42 & 54 \\ \hline \times 26 & \times 93 & \times 42 \\ \hline \hline 444 & 126 & 108 \\ \hline \end{array}$$

 1,480
 3,780
 2,160

 1,924
 3,906
 2,268

Homework Answers

1.4 Record and Practice Journal

List the factor pairs of the number. 6 2. 7 3. 10 1 • 6, 2 • 3 1 • 7 1 • 10, 2 • 5 5. 35 1 • 16, 2 • 8, 1 • 35, 5 • 7 6. 55 1 • 55, 5 • 11 Write the prime factorization of the number. 7. 9 $2^3 \cdot 3$ $2^3 \cdot 5$ 10. 44 **11.** 50 **12.** 65 $2^2 \cdot 11$ 5 • 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

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Essential Question:

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

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Lesson Objective:

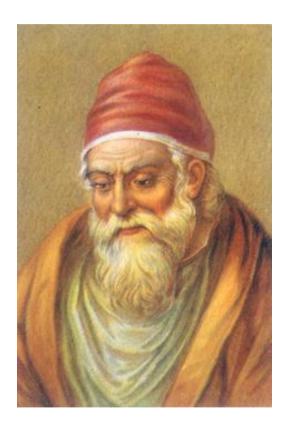
Students will be able to:

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".

Euclid's Ladder

12 20

14 35

On Your Own

12 30

32 54

124 108

51 85

II4 84

39 66

Assignment

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

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Homework

In your Big Ideas Record and Practice Journal page 22.