Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Warm Up

$(7-7)\div((6+3-2)\div 1)$

$(7-2\times(1+2))\times 5\div 1$

$1^2\times 4\div 1\times(10-8)$

$6-(9\times 2-(1+6+7))$

Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Warm Up Answers

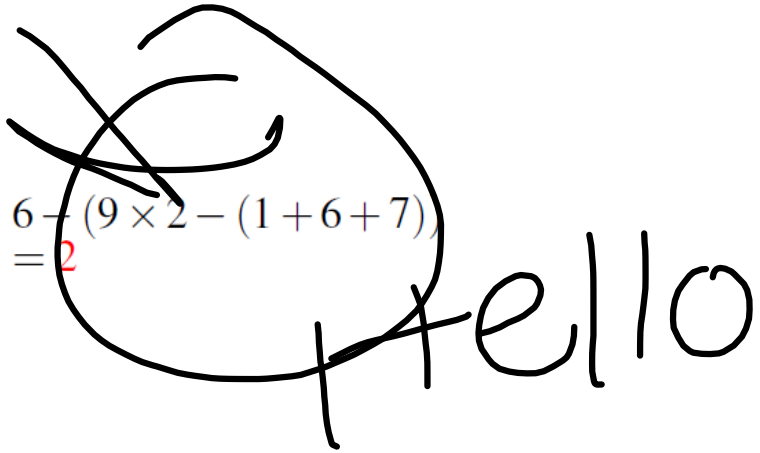
$(7-7)\div((6+3-2)\div 1)$
$=0$

$(7-2\times(1+2))\times 5\div 1$
$=5$

$1^2\times 4\div 1\times(10-8)$
$=8$

1²×4÷1×2
1·4÷1·2
4÷1·2
4·2
8

$6-(9\times 2-(1+6+7))$
$=2$



Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Homework Answers

1.5 Record and Practice Journal

Find the GCF of the numbers using lists of factors.

1. 9, 15
   3
2. 11, 19
   1
3. 8, 28
   4
4. 60, 70
   10
5. 40, 56
   8
6. 35, 72
   1

Find the GCF of the numbers using prime factorizations.

7. 4, 10
   2
8. 5, 11
   1
9. 6, 8
   2
10. 14, 42
    14
11. 45, 63
    9
12. 60, 90
    30
13. You are making identical gift bags using 24 candles and 36 bottles of lotion. What is the greatest number of gift bags you can make with no items left over?
    12 gift bags

Lesson Objective:

Students will be able to:

use Euclid's Ladder to find the Least Common Multiple of two numbers.

and

use the least common multiple to add and subtract fractions with unlike denominators.

Self-Evaluation Scale

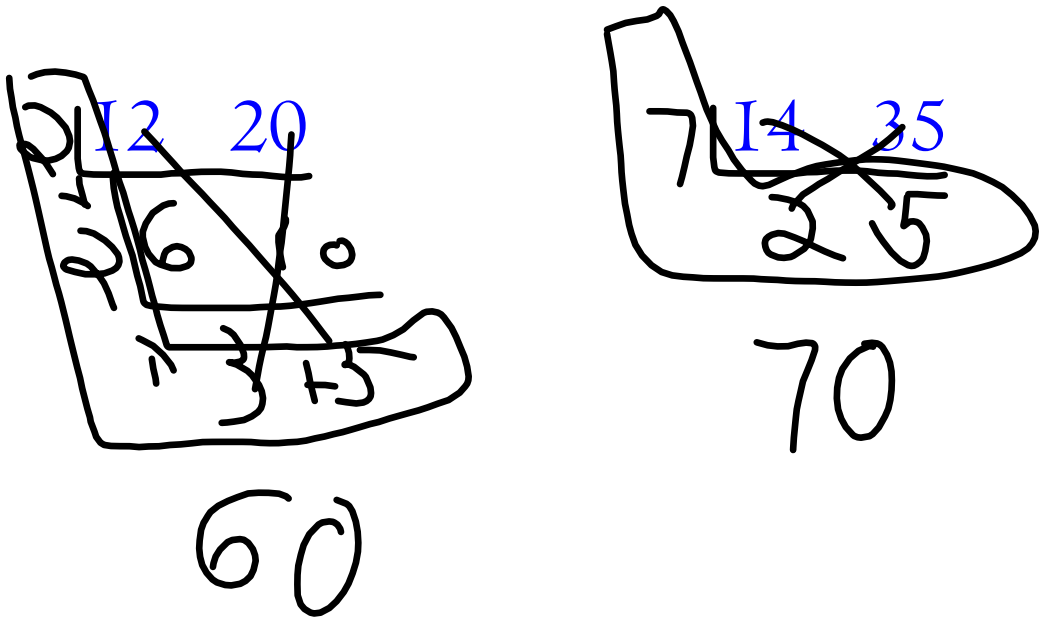
Score	Description
4	I can teach other students how to use the least common multiple to add and subtract fractions with unlike denominators.
3	I can use the least common multiple to add and subtract fractions with unlike denominators.
2	I recognize, but still need help to use the least common multiple to add and subtract fractions with unlike denominators.
1	I do not know how to use the least common multiple to add and subtract fractions with unlike denominators.

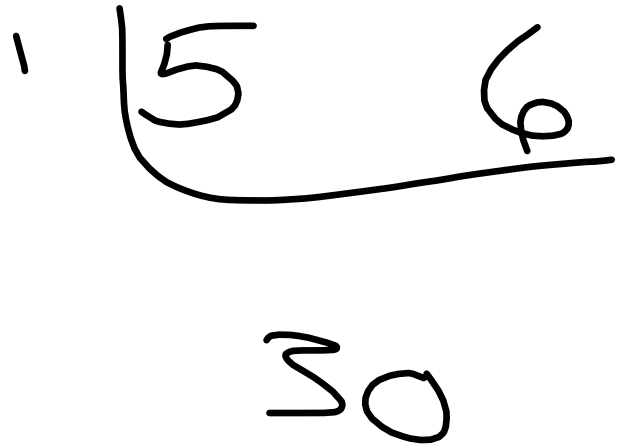
Euclid of Alexandria

lived from about 325 BC to about 265 BC

Euclid was a Greek mathematician best known for his treatise on geometry: The Elements . This influenced the development of Western mathematics for more than 2000 years.

Euclid's Ladder




1
5
6
30

On Your Own

12 | 30

32 | 54

24 | 108

51 | 85

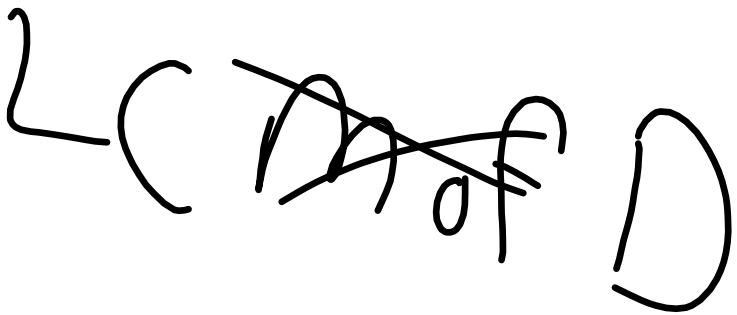
14 | 84

39 | 66

Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Least Common Denominator

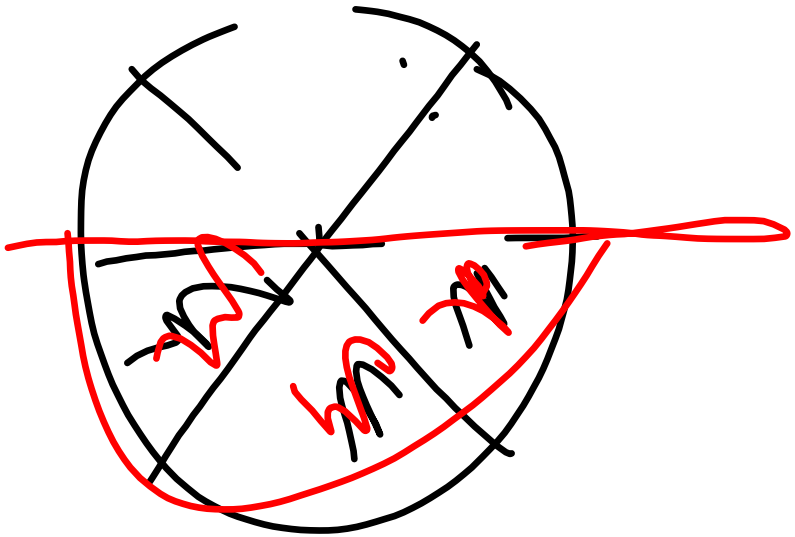
LCD - the least common multiple of the denominators



$$\frac{1}{6}$$

$$\frac{0}{6} = 0 \qquad \frac{6}{0}$$

$$\frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$



Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Find $\frac{5}{8} + \frac{1}{6}$.

$\frac{5}{8}$ $\times 3$ $\frac{15}{24}$

$+ \frac{1}{6}$ $\frac{4}{4}$ $+$ $\frac{4}{24}$

$\frac{19}{24}$

2 | 8 6

4 3

Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Find $4\frac{3}{4} - 2\frac{3}{10}$.

$4\frac{3}{4}$ $4\frac{15}{20}$

$-2\frac{3}{10}$ $-2\frac{6}{20}$

$2\frac{9}{20}$

$$6\frac{1}{5} - 3\frac{4}{7}$$

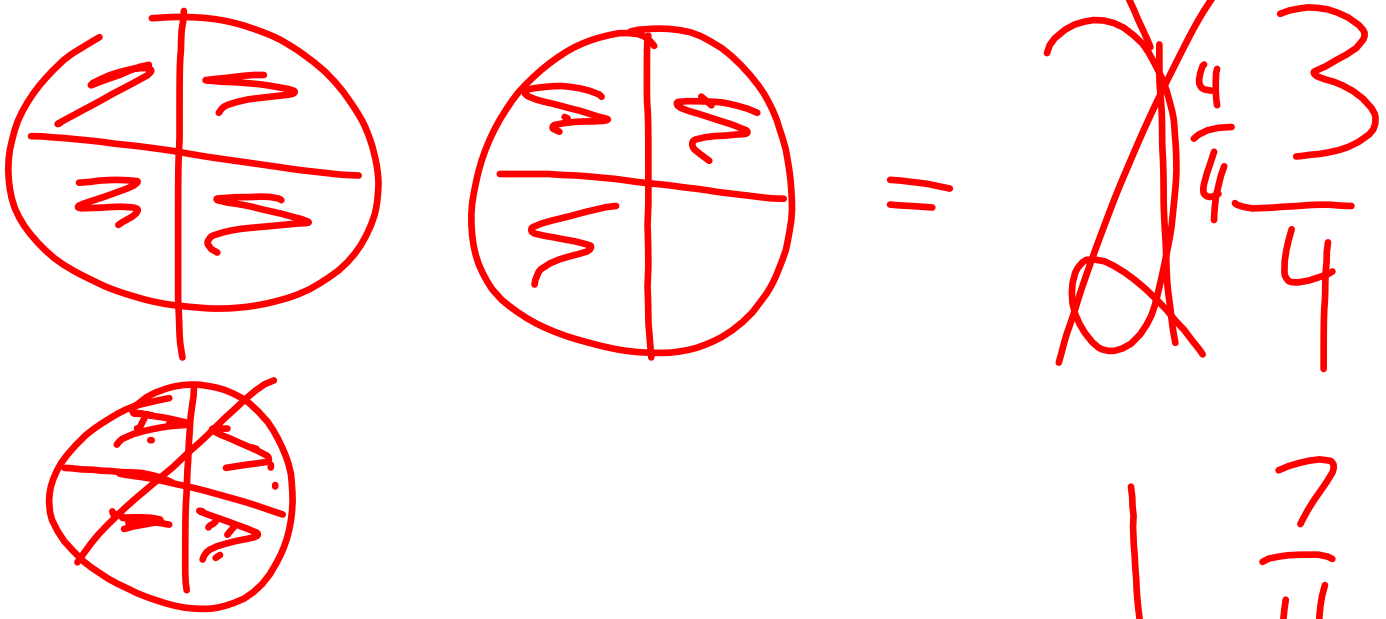
$$\not{6}^{\,5}\ \frac{\not{7}\ 42}{35} - 3\frac{20}{35} = 2\frac{22}{35}$$

$$\begin{array}{r} {}^{4}\not{5}^{11} \\ -\ 3\,4 \\ \hline 1\,7 \end{array}$$

$$8\frac{3}{10} \qquad 7\frac{39}{30}$$

$$-\,4\frac{5}{6} \qquad -\,4\frac{25}{30}$$

$$3\frac{14}{30} = 3\frac{7}{15}$$


1
4/4
3/4
1
7/4

Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Assignment

Complete problems 9 - 16 on page 43 in your Big Ideas text book.

Lesson 1.6 Extension

September 14, 2015

Lesson Objective:

Students will be able to:

use the least common multiple to add and subtract fractions with unlike denominators.

Self-Evaluation Scale

Score	Description
4	I can teach other students how to use the least common multiple to add and subtract fractions with unlike denominators.
3	I can use the least common multiple to add and subtract fractions with unlike denominators.
2	I recognize, but still need help to use the least common multiple to add and subtract fractions with unlike denominators.
1	I do not know how to use the least common multiple to add and subtract fractions with unlike denominators.

Lesson Objective: Students will be able to use the least common multiple to add and subtract fractions with unlike denominators.

Homework

In your Big Ideas Record and Practice Journal complet pages 27 & 28.