

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

Warm Up

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

0

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

$$\begin{aligned} 1 \times 4 &= 1 \times 2 \\ 1 \times 4 &= 1 \times 2 \\ 4 &= 1 \times 2 \\ 4 &= 2 \\ 8 \end{aligned}$$

$$\begin{aligned} (7 - 2 \times (1 + 2)) \times 5 \div 1 \\ (7 - 2 \times 3) \times 5 \div 1 \\ (7 - 6) \times 5 \div 1 \\ 1 \times 5 \div 1 \\ 5 \div 1 \end{aligned}$$

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

$$\begin{aligned} 6 - (9 \times 2 - 14) \\ 6 - (18 - 14) \\ 6 - 4 \\ 2 \end{aligned}$$

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Warm Up Answers

$$\begin{aligned} &(7 - 7) \div ((6 + 3 - 2) \div 1) \\ &= 0 \end{aligned}$$

$$\begin{aligned} &(7 - 2 \times (1 + 2)) \times 5 \div 1 \\ &= 5 \end{aligned}$$

$$\begin{aligned} &1^2 \times 4 \div 1 \times (10 - 8) \\ &= 8 \end{aligned}$$

$$\begin{aligned} &6 - (9 \times 2 - (1 + 6 + 7)) \\ &= 2 \end{aligned}$$

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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.

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Least Common Denominator

LCD - the least common multiple of the denominators

October 14, 2014 Period 3 Lesson 1.6 Extension

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

$$\begin{array}{r} \frac{5}{8} \xrightarrow{\times 3} \frac{15}{24} \quad \xrightarrow{\times 2} \frac{30}{48} \\ + \frac{1}{6} \xrightarrow{\times 4} \frac{4}{24} \quad \xrightarrow{\times 8} \frac{8}{48} \\ \hline \frac{19}{24} \quad \frac{38}{48} \end{array}$$

October 14, 2014 Period 3 Lesson 1.6 Extension

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

$$\begin{array}{r} 4\frac{3}{4} \\ - 2\frac{3}{10} \\ \hline 2\frac{9}{20} \end{array}$$

Handwritten work showing the conversion of $4\frac{3}{4}$ to $4\frac{15}{20}$ and the subtraction of $2\frac{3}{10}$ (written as $2\frac{6}{20}$) to result in $2\frac{9}{20}$.

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Assignment

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

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Homework

In your Big Ideas Record and Practice Journal
complete pages 27.