Finding the Least Common Multiple (LCM)

Overview of problems

Example Set: A

Find the least common multiple (LCM) of each pair of numbers.

6, 10

16, 20

7, 3

12, 6, 15

Example Set: B

Find the least common denominator (LCD) of each pair of fractions.

$\frac{2}{3}$, $\frac{1}{9}$

$\frac{7}{10}$, $\frac{3}{14}$

$\frac{2}{5}$, $\frac{1}{8}$, $\frac{9}{20}$

Example Set: C

When adding fractions one needs to be able to determine the LCD. Find the least common denominator (LCD) of each fraction expression.

$$\frac{5}{8} + \frac{1}{4}$$

$$\frac{3}{10} + \frac{7}{6}$$

$$\frac{1}{15} + \frac{3}{12}$$

$$\frac{6}{11} + \frac{9}{7}$$

Example Set: D

When subtracting fractions one needs to be able to determine the LCD. Find the least common denominator (LCD) of each fraction expression.

$$\frac{4}{7} - \frac{1}{2}$$

$$\frac{13}{12} - \frac{9}{8}$$

$$\frac{5}{14} - \frac{2}{6}$$

$$\frac{22}{25} - \frac{17}{20}$$

Finding the Least Common Multiple (LCM)

Overview of problems- KEY

Example Set: A

Find the least common multiple (LCM) of each pair of numbers.

$6, 10 = 30$ $\qquad$ $16, 20 = 80$

$7, 3 = 21$ $\qquad$ $12, 6, 15 = 60$

Example Set: B

Find the least common denominator (LCD) of each pair of fractions.

$\frac{2}{3}, \frac{1}{9} = 9$

$\frac{7}{10}, \frac{3}{14} = 70$

$\frac{2}{5}, \frac{1}{8}, \frac{9}{20} = 40$

Example Set: C

When adding fractions one needs to be able to determine the LCD. Find the least common denominator (LCD) of each fraction expression.

$\frac{5}{8} + \frac{1}{4}$ 8

$\frac{3}{10} + \frac{7}{6}$ 30

$\frac{1}{15} + \frac{3}{12}$ 60

$\frac{6}{11} + \frac{9}{7}$ 77

Example Set: D

When subtracting fractions one needs to be able to determine the LCD. Find the least common denominator (LCD) of each fraction expression.

$\frac{4}{7} - \frac{1}{2}$ 14

$\frac{13}{12} - \frac{9}{8}$ 24

$\frac{5}{14} - \frac{2}{6}$ 42

$\frac{22}{25} - \frac{17}{20}$ 100