Fractions and the four operations.

Key Words

Fraction

Numerator

Denominator

Lowest common multiple

Highest common factor

Simplify

Compare

Order

Add

Subtract

Multiply

Divide

Integer

Simplifying

Alex is simplifying $\frac{8}{12}$ by dividing the numerator and denominator by their highest common factor.

Factors of 8: 1, 2, 4, 8
Factors of 12: 1, 2, 3, 4, 6, 12
4 is the highest common factor.

$$\frac{8}{12} = \frac{2}{3}$$

$\div 4$

$\div 4$

Comparing and Ordering

Dora is comparing $\frac{5}{6}$ and $\frac{3}{4}$ by finding the lowest common multiple of the denominators.

Multiples of 6: 6, 12, 18, 24
Multiples of 4: 4, 8, 12, 16,
12 is the LCM of 4 and 6

$$\frac{5}{6} = \frac{10}{12} \qquad \frac{3}{4} = \frac{9}{12}$$

$$\frac{10}{12} > \frac{9}{12}$$

To add or subtract, make sure that your denominators are the same. Then, add or subtract the numerators and keep the denominators the same!

Adding or subtracting mixed numbers...

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

Add the fractions by adding the whole first and then the fractions. Give your answer in its simplest form.

$$1 + 2 = 3$$

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