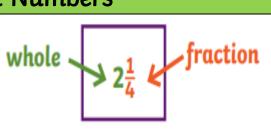


Year 5 Fractions

Key Vocabulary	Equivalent Fractions		
numerator denominator	To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.		
unit fraction non-unit fraction whole equivalent mixed number improper fraction simplest form multiple	$\begin{array}{c} \times 5 & \times 10 \\ \hline \frac{1}{2} = \frac{5}{10} = \frac{50}{100} \\ \hline \times 5 & \times 10 \end{array}$		
common denominator	Compare and Order Fractions		
common numerator	We can compare and order fractions by using common denominators. $\frac{1}{3}, \frac{5}{6}, \frac{7}{12}$ $\frac{4}{12}, \frac{10}{12}, \frac{7}{12}$ $\frac{1}{3}, \frac{7}{12}, \frac{5}{6}$		



Improper Fractions

An improper fraction has a numerator which is greater than or equal to the denominator.

Convert an Improper Fraction to a Mixed Number

Covert a Mixed Number to an Improper Fraction

Divide the numerator

by the denominator.

This shows you the whole number and the fraction.

Multiply the whole by the denominator to make an improper fraction.

$$2\frac{5}{6} = \frac{12}{6} + \frac{5}{6} = \frac{17}{6}$$

Add the fractions together.

Adding and Subtracting Fractions

To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.

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

$$\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$$



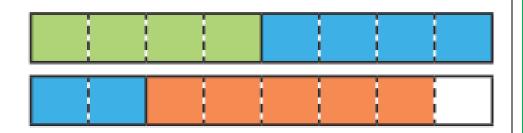
$$\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$

$$\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$$



Add Fractions Where the Total is Greater than 1

$$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$$



Add Mixed Numbers

$$1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1 + \frac{5}{8} = 1\frac{5}{8}$$

$$1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$$

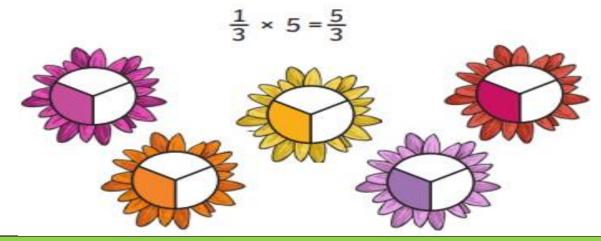


Subtract from a Mixed Number

$$1\frac{2}{3} - \frac{2}{9} = 1\frac{6}{9} - \frac{2}{9} = 1\frac{4}{9}$$

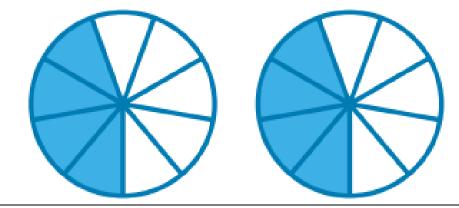
starting number	find the equivalent fraction	subtract

Multiply Unit Fractions by an Integer



Multiply Non-Unit Fractions by and Integer

$$2 \times \frac{4}{9} = \frac{8}{9}$$



Subtract Two Mixed Fractions

$$2\frac{3}{4} - 1\frac{5}{8} = 1\frac{1}{8}$$



$$2 - 1 = 1$$

$$\frac{3}{4} - \frac{5}{8} = \frac{1}{8}$$

Multiply Mixed Numbers by Integers

Convert to an improper fraction and multiply the numerator by the integer.

$$2\frac{1}{4} \times 2 =$$

$$\frac{9}{4}$$
 ×

$$\frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} =$$

Use repeated addition.

$$2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$

Subtract from a Mixed Number – Breaking the Whole

$$2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$$





