

Year 5 Block 4 Unit: Fractions A

Key Vocabulary:

numerator	denominator	unit fraction	non-unit fraction
whole	equivalent	mixed number	improper number
simplest form	common denominator	common numerator	

What will I know by the end of this unit?

Finding equivalent fractions:
To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.

$$\frac{1}{2} \xrightarrow{\times 5} \frac{5}{10} \xrightarrow{\times 10} \frac{50}{100}$$

Convert improper fractions to mixed numbers:

$$\frac{9}{4}$$

Divide the numerator by the denominator:

$$9 \div 4 = 2 \text{ r}1$$

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

Compare and order fractions:
We can compare and order fractions by using common denominators.

Convert mixed numbers to improper fractions:

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

Multiply the whole by the denominator to make an improper fraction. Then add the fractions together.

Add and subtraction fractions:

Add mixed numbers:

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

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

Subtraction - breaking the whole:

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

Subtraction mixed numbers:

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

starting number	find the equivalent fraction	subtract

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

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