

Year 5 - Fractions

Key vocabulary		
Fraction	A part of a whole.	
Numerator	The top number in the fraction which shows how many parts you have.	
Denominator	The bottom number in the fraction which shows how many equal parts the item is divided into.	
Proper Fraction	A proper fraction is a fraction where the numerator is less than the denominator.	
Improper Fraction	A fraction where the numerator is greater than the denominator.	
Mixed Number	A number that is made up of a whole number and a fraction.	

Fractions, Decimals and Percentage Equivalents

Decimal	Percentage	Fraction
0.5	50%	1/2
0.25	25%	1/4
0.75	75%	<u>3</u>
0.2	20%	<u>1</u> 5
0.1	10%	1 10

Basic Facts

Improper **Fractions**

Improper fractions and mixed numbers show frac-

$$\frac{1}{7} = \boxed{\frac{4}{7}} = \boxed{\boxed{\frac{4}{7}}}$$

Proper **Fractions**

Proper Fractions



$$\frac{1}{8} = 1 \div 8 = 0.125$$

Equivalent





Mixed **Fractions**



(one and three-quarters)

Basic Facts

Adding and Subtracting Fractions

$$\frac{1}{3} + \frac{1}{4} = \frac{?}{?}$$

First make the bottom numbers (the denominators) the same Step 1. Multiply the top numbers:

Multiply top and bottom of $\frac{1}{3}$ by 4:

$$\frac{1 \times 4}{3 \times 4} + \frac{1}{4} = \frac{?}{?}$$
 Step 2. Multiply the bottom numbers:

And multiply top and bottom of $\frac{1}{4}$ by 3:

$$\frac{1\times4}{3\times4} + \frac{1\times3}{4\times3} = \frac{?}{?}$$

Now do the calculations:

$$\frac{4}{12} + \frac{3}{12} = \frac{4+3}{12} = \frac{7}{12}$$

Multiplying Fractions

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{2} = \frac{2}{2}$$

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{2 \times 5} = \frac{2}{10}$$

Step 3. Simplify the fraction:

$$\frac{2}{10} = \frac{1}{5}$$