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Note 1: Addition and subtraction of simple fractions are introduced in 5th class.

Adding fractions (5th class)

(answers less than one unit)

Example 1 $\frac{1}{4} + \frac{1}{8} = \square$

Example 2 $\frac{1}{2} + \frac{1}{6} = \square$

Use the fraction wall to add simple fractions. Try out the examples first then add the fractions below yourself. The best answer is the row with *least* number of pieces.

(i) $\frac{1}{2} + \frac{1}{8} = \square$

(ii) $\frac{1}{3} + \frac{1}{6} = \square$

(iii) $\frac{1}{4} + \frac{5}{12} = \square$

(iv) $\frac{1}{5} + \frac{3}{10} = \square$

(v) $\frac{3}{4} + \frac{1}{6} = \square$

2

Subtracting fractions (5th class)

(Subtract from one unit or less)

Example 1 $\frac{1}{2} - \frac{1}{3} = \square$

Which fraction fits $\frac{1}{3} + \square = \frac{1}{2}$? So $\frac{1}{2} - \frac{1}{3} = \frac{1}{6}$

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

Which fraction fits $\frac{1}{6} + \square = \frac{3}{4}$? So $\frac{3}{4} - \frac{1}{6} = \frac{7}{12}$

Try out the examples then subtract the following fractions yourself.

(i) $\frac{5}{6} - \frac{1}{2} = \square$

(ii) $\frac{1}{2} - \frac{1}{10} = \square$

(iii) $\frac{1}{3} - \frac{1}{4} = \square$

(iv) $\frac{2}{3} - \frac{2}{9} = \square$

(v) $\frac{3}{5} - \frac{1}{2} = \square$

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Decimals & Percentages (5th class)

Note 2: The relationship between $\frac{1}{10}$ and 0.1 is introduced in Third class. *Hundredths* are introduced in 4th and *thousandths* in 5th. Percentages also are introduced in 5th.

Learn the relationships between Fraction, Decimal and Percentages from equivalence activities using the F D P walls. Record patterns for (i) *tenth, fifth, half and unit* (ii) *quarters* and (iii) *eighths*

(i)

$\frac{1}{10}$	$= \square$
0.1	$= 0.\square$
10%	$= \square\%$

$\frac{1}{5}$	$= \frac{2}{10}$
$\frac{1}{10}$ $\frac{1}{10}$	$= \square$
0.1 0.1	$= 0.\square$
10% 10%	$= \square\%$
0.2	
20%	

$\frac{1}{2}$	$= \frac{5}{10}$
$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$= \square$
0.1 0.1 0.1 0.1 0.1	$= 0.\square$
10% 10% 10% 10% 10%	$= \square\%$
0.5	
50%	

one unit

$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$= 1$ OR 1.0 OR 100%
0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	$= 1$ OR 1.0 OR 100%
10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	$= 1$ OR 1.0 OR 100%

(ii)

$\frac{1}{4}$	
$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	
0.1 0.1 0.1	
10% 10% 10%	
0.25	
25%	

Notice how

$\frac{1}{4} > \frac{2}{10}$ and $\frac{1}{4} < \frac{3}{10}$

$\frac{1}{4} > 0.2$ and $\frac{1}{4} < 0.3$

$\frac{1}{4} > 20\%$ and $\frac{1}{4} < 30\%$

$\frac{1}{4} = 0.25$

$\frac{1}{4} = 25\%$

Use pieces which show $\frac{5}{8}$ and $\frac{7}{8}$ as decimals and percentages.

(iii)

$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$	
0.1 0.1 0.1 0.1	
10% 10% 10% 10%	
0.125 0.125 0.125	
12.5% 12.5% 12.5%	

Here are $\frac{3}{8}$

$\frac{3}{8} > \frac{3}{10}$ and $\frac{3}{8} < \frac{4}{10}$

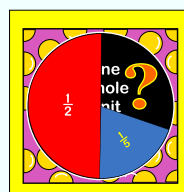
$\frac{3}{8} > 0.3$ and $\frac{3}{8} < 0.4$

$\frac{3}{8} > 30\%$ and $\frac{3}{8} < 40\%$

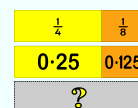
$\frac{3}{8} = 0.375$

$\frac{3}{8} = 37.5\%$

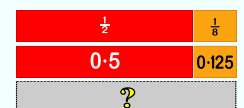
Three Puzzles



1. Pie Chart
What percentage is the black section?



2. Add %
What is the total percentage of the shaded pieces?



3. Add %
What is the total percentage of the shaded pieces?