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

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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	$= 0 \cdot \square$
10%	$= \square \%$

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

$\frac{1}{2}$	$= \frac{5}{10}$			
$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$= \frac{5}{10}$			
0.1	0.1	0.1	0.1	0.1
10%	10%	10%	10%	10%
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%								
$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$= \frac{10}{10}$ 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
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
1									
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 $\frac{1}{4} < 30\%$
 $\frac{1}{4} = 0.25$
 $\frac{1}{4} = 25\%$

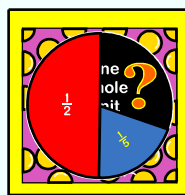
✓ Use pieces which show $\frac{5}{8}$ and $\frac{7}{8}$ as decimals and percentages.

(iii)

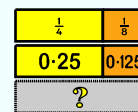
$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$			
$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$			
0.1	0.1	0.1	0.1
10%	10%	10%	10%
0.125	0.125	0.125	
12.5%	12.5%	12.5%	

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

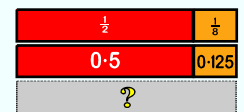


1. Pie Chart
What percentage is the black section?



2. Add %

What is the total percentage of the shaded pieces?



3. Add %

What is the total percentage of the shaded pieces?