



TOPIC- FRACTIONS

NAME - _____ CLASS - V/ SEC _____ WEEK: 08/02/2021 to 12/02/2021

LEARNING OUTCOMES: Each child will be able to:

- * compare at least one set of the given fractions.
- * write at least three fractions in their simplest form.
- * add and subtract at least two given like fractions.

LET'S RECAPITULATE:

Q1. Arrange the following fractions in ascending order:

a. $\frac{7}{8}, \frac{2}{3}, \frac{3}{4}$ and $\frac{5}{6}$

b. $\frac{7}{10}, \frac{3}{6}, \frac{6}{18}$ and $\frac{1}{3}$

Q2. Arrange the following fractions in descending order:

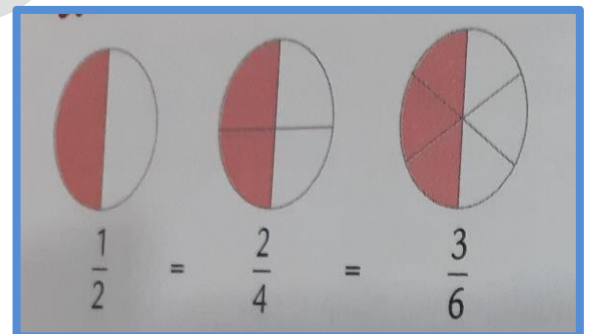
a. $\frac{2}{3}, \frac{1}{5}, \frac{3}{4}, \frac{5}{6}$

b. $\frac{11}{15}, \frac{4}{3}, \frac{14}{5}$ and $\frac{7}{30}$

SIMPLEST FORM OF FRACTIONS:

$\frac{1}{2}, \frac{2}{4}, \frac{3}{6}$, are all equivalent fractions, but $\frac{1}{2}$ is the fraction in its lowest term.

A fraction is in the lowest term when the only common factor between the numerator and the denominator is 1.



Remember: In order to reduce a fraction to its lowest term, you should keep dividing the numerator and the denominator by the same number till you cannot divide further.

And equivalent fractions are obtained by multiplying the numerator and denominator by the same number. At every step of simplification of a fraction we get an equivalent fraction.

Q1. Shade the fractions in the lowest term.

$\frac{2}{3}$	$\frac{12}{16}$	$\frac{3}{9}$	$\frac{2}{5}$	$\frac{4}{7}$	$\frac{7}{14}$
$\frac{2}{12}$	$\frac{1}{2}$	$\frac{8}{16}$	$\frac{4}{9}$	$\frac{6}{12}$	$\frac{6}{7}$
$\frac{5}{10}$	$\frac{3}{4}$	$\frac{3}{7}$	$\frac{18}{21}$	$\frac{16}{24}$	$\frac{3}{5}$

Q2. Do as directed:

Reduce the fraction to its lowest term in each of the following.

a $\frac{14(\div 7)}{21(\div 7)}$

b $\frac{9(\div 3)}{12(\div 3)}$

c $\frac{10(\div 5)}{15(\div 5)}$

d $\frac{12(\div 4)}{16(\div 4)}$

e $\frac{18(\div 9)}{27(\div 9)}$

f $\frac{6(\div 2)}{10(\div 2)}$

Reduce the following fractions to their lowest terms.

a $\frac{2}{6}$

b $\frac{4}{8}$

c $\frac{6}{8}$

d $\frac{6}{9}$

e $\frac{5}{10}$

f $\frac{4}{6}$

g $\frac{12}{15}$

h $\frac{12}{18}$

i $\frac{16}{20}$

j $\frac{7}{35}$

Circle the fractions in its lowest terms.

a $\frac{3}{15}$

b $\frac{4}{12}$

c $\frac{1}{5}$

d $\frac{11}{13}$

e $\frac{12}{14}$

f $\frac{2}{11}$

g $\frac{3}{5}$

h $\frac{5}{7}$

i $\frac{6}{8}$

j $\frac{9}{18}$




ADDITION AND SUBTRACTION OF LIKE FRACTIONS:

Adding like fractions:

Addition of Fractions

Let's Recall

Add:

a  $\frac{2}{5}$ +  $\frac{1}{5}$ =  $\frac{\square}{\square}$

i.e. Two-fifth + One-Fifth = Three-fifth

b $\frac{2}{8}$ + $\frac{3}{8}$ = $\frac{\square}{\square}$

Two-eighth + Three-eighth = _____

c $\frac{2}{7}$ + $\frac{4}{7}$ = $\frac{\square}{\square}$

Two-fifth + One-Fifth = _____

Observe that when denominators of two fractions are the same, to add them, we add up numerators, keeping denominators the same.

Let's Practise

1. Add the following fractions.

a $\frac{3}{6} + \frac{1}{6}$

b $\frac{4}{9} + \frac{1}{9}$

c $\frac{1}{17} + \frac{6}{17} + \frac{5}{17}$

d $\frac{7}{11} + \frac{3}{11}$

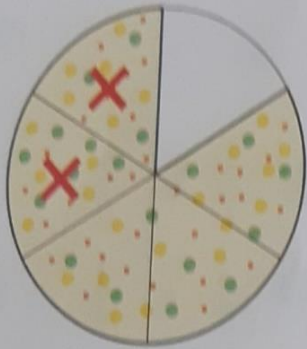
e $\frac{2}{12} + \frac{4}{12} + \frac{3}{12}$

f $\frac{3}{19} + \frac{4}{19} + \frac{5}{19}$

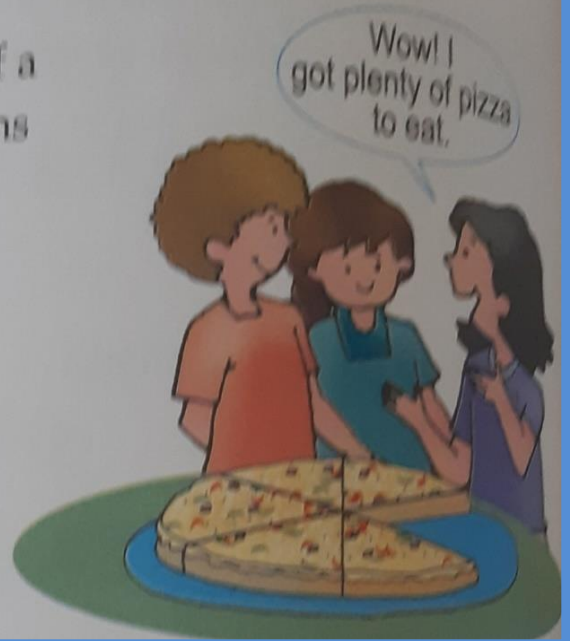
Subtraction of Like Fractions:

Subtraction of Fractions

After the party, Anu was left with $\frac{5}{6}$ part of a pizza. She ate $\frac{2}{6}$ parts of it. Find the fractions of the left out pizza.



$$\frac{5}{6} - \frac{2}{6} = \frac{\quad}{\quad}$$



$\frac{3}{4}$

Three-fourth

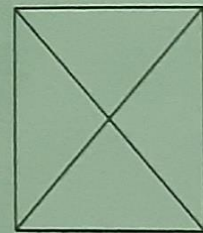
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$\frac{2}{4}$

Two-Fourth

=



Observe that when the denominators of two fractions are the same, to subtract such fractions, we subtract the numerators, keeping the denominators same.

Let's Practise

1. Find the difference.

a $\frac{5}{7} - \frac{3}{7}$

b $\frac{13}{15} - \frac{7}{15}$

c $\frac{11}{12} - \frac{5}{12}$

d $\frac{7}{9} - \frac{1}{9}$

Let's subtract 1 from 1