Department of Education, Sabaragamuwa Province – Weekly School

Grade: 6 | Subject: - Mathematics | Week: 9

Unit: - Fractions

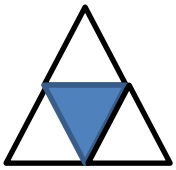
Number of Periods: 12

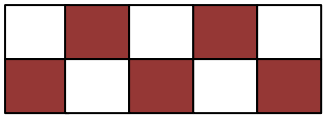
- Clearly understand the pages 112 and 113 in the text book.

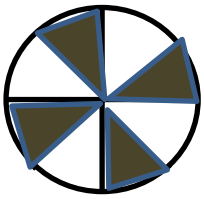
Write down the coloured quantity in each figure as a fraction of whole figure and the method of reading it.

Ex: - =  $\frac{1}{3}$ (one third)

 = ... (.....)

 = ... (.....)

 = ... (.....)

 = ... (.....)

Fractions which are less than one and greater than zero are known as proper fractions.

Separate and write proper fractions from the following numbers.

$\frac{2}{3}$, $\frac{4}{4}$, $\frac{8}{5}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{5}{7}$, $\frac{7}{4}$, $\frac{2}{7}$, $1\frac{2}{3}$

- Complete the exercise 9.1 in the pages 115 and 116 in the text book.

- Clearly Understand the portion “The denominator and the numerator of a fraction” the page number 116 in the text book.

Fractions with numerator equal to one are known as unit fractions.

Ex :- $\frac{1}{3}, \frac{1}{7}, \frac{1}{8}, \frac{1}{100}, \ldots\ldots\ldots$

- Complete the exercise 9.2 in the text book.

- understand the pages 118 and 119 in the text book. Through that explain about equivalent fractions.

The fraction obtain by multiplying both the numerator and the denominator of a fraction by the same whole number (Except zero) is equivalent fraction to the first fraction.

Select the equivalent fractions and joint them.

$\frac{2}{3}$	$\frac{15}{21}$
$\frac{5}{7}$	$\frac{4}{6}$
$\frac{3}{4}$	$\frac{16}{20}$
$\frac{4}{5}$	$\frac{6}{21}$
$\frac{2}{7}$	$\frac{9}{12}$

The fraction obtains by dividing both the numerator and the denominator of a fraction by the same whole number (where the division gives zero remainder) is equivalent fraction to the first fraction.

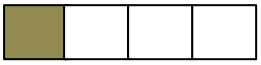
- Fill in the blanks with a suitable value so that you obtain equivalent fractions.

$\frac{7}{14} = \frac{\quad}{2}$ $\qquad$ $\frac{15}{24} = \frac{5}{\quad}$ $\qquad$ $\frac{3}{6} = \frac{\quad}{\quad}$

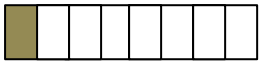
$\frac{12}{18} = \frac{2}{\quad}$ $\qquad$ $\frac{20}{30} = \frac{2}{\quad}$ $\qquad$ $\frac{18}{24} = \frac{3}{\quad}$

- Complete the exercise 9.3 in the page number 121 of the text book.

- Understand the pages 122 and 123 in the text book.
  - Connect the fraction pair according to the shaded area using = , <, > .



$= \frac{1}{4}$



$= \frac{1}{8}$ $\qquad\qquad \frac{1}{4} > \frac{1}{8}$

Out of two unit fractions, the larger fraction is the fraction with the smaller denominator.

- Understand the page numbers 123 and 124 in the text book.
- correctly Complete the comparison of two fractions having the same numerator.

$\frac{2}{3} \longrightarrow$ two $\frac{1}{3}$ s

$\frac{2}{7} \longrightarrow$ two $\frac{1}{7}$ s

$\frac{1}{3} > \frac{1}{7}$ therefore $\frac{2}{3} > \frac{2}{7}$

Out of two fractions having the same numerator, the larger fraction is the fraction with the smaller denominator.

Connect the fractions below using = , < , >

Ex :- $\frac{5}{7} > \frac{5}{8}$

1) $\frac{3}{4}$ ..... $\frac{3}{5}$ 2) $\frac{7}{9}$ ..... $\frac{7}{8}$ 3) $\frac{4}{7}$ ..... $\frac{4}{6}$

4) $\frac{5}{6}$ ..... $\frac{5}{8}$ 5) $\frac{3}{11}$ ..... $\frac{3}{7}$

Out of two fractions having the same denominator, the larger fraction is the fraction with the larger denominator.

Arrange the fractions below in ascending order using > or <

Ex: - $\frac{1}{7}, \frac{4}{7}, \frac{3}{7}, \frac{5}{7}$

$\frac{1}{7} < \frac{3}{7} < \frac{4}{7} < \frac{5}{7}$

1) $\frac{5}{8}, \frac{5}{7}, \frac{5}{9}$ 2) $\frac{7}{12}, \frac{7}{9}, \frac{7}{8}, \frac{7}{10}$ 3) $\frac{2}{13}, \frac{8}{13}, \frac{5}{13}, \frac{3}{13}$ 4) $\frac{1}{5}, \frac{4}{5}, \frac{2}{5}, \frac{3}{5}$

- Clearly understand the page 137 of the text book.

  Ex: - $\frac{1}{7} \ldots\ldots \frac{5}{14}$

  $\frac{1 \times 2}{7 \times 2} \ldots\ldots \frac{5}{14}$

  $\frac{2}{14} < \frac{5}{14}$

  $\frac{1}{7} < \frac{5}{14}$

- Correctly understand the example 1 in the page 124 of the text book.
  - Complete the exercise 9.4 the page numbers 124 and 125 in the text book.

  Ex: - $\frac{3}{12} + \frac{4}{12}$

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

  $\frac{7}{12}$

- Look at the pages 125 and 126. Clearly understand the methods of adding and subtracting the fractions with the same and different denominator.

$\frac{2}{8} + \frac{3}{8}$

$\frac{2+3}{8}$

$\frac{5}{8}$

$\frac{11}{13} - \frac{5}{13}$

$\frac{11-5}{13}$

$\frac{6}{13}$

$\frac{5}{12} + \frac{2}{3}$

$\frac{5}{12} + \frac{2 \times 4}{3 \times 4}$

$\frac{5}{12} + \frac{8}{12}$

$\frac{5+8}{12}$

$\frac{13}{12}$

- Complete the exercise 9.5 the page numbers 128 and 129 in the text book.
- Complete the exercise 9.6 the page numbers 131 and 132 in the text book
- Understand the pages 132 and 133 in the text book.
- Complete the miscellaneous exercises.
- Get the help from your teacher to clear your doubts.