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P.4 Mathematics

LESSON ONE WEEK SIX
LESSON I

TOPIC   :   FRACTIONS
SUBTOPIC: Ordering fractions
CONTENT :   Arranging fractions starting with the largest.

Example 1

(i) $\dfrac{1}{2}, \dfrac{2}{3}, \dfrac{1}{6}$

$\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{3}{6} = \dfrac{4}{8} = \dfrac{5}{10}$ ....

$\dfrac{2}{3} = \dfrac{4}{6} = \dfrac{6}{9} = \dfrac{8}{12}$ ....

$\dfrac{1}{6} = \dfrac{2}{12} = \dfrac{3}{18}$ ....

$\therefore \dfrac{1}{2}, \dfrac{2}{3}, \dfrac{1}{6}$ starting from the biggest is $\dfrac{2}{3}, \dfrac{1}{2}, \dfrac{1}{6}$

Example 2

Arrange: $\dfrac{1}{3}, \dfrac{1}{2}, \dfrac{1}{5}$ starting with the smallest.

$\dfrac{1}{3} = \dfrac{2}{6} = \dfrac{3}{9} = \dfrac{4}{12} = \dfrac{5}{15} = \dfrac{6}{18} = \dfrac{7}{21} = \dfrac{8}{24} = \dfrac{9}{27} = \dfrac{10}{30}$

$\dfrac{1}{2} = \dfrac{2}{4} = \dfrac{3}{6} = \dfrac{4}{8} = \dfrac{5}{10} = \dfrac{6}{12} = \dfrac{7}{14} = \dfrac{10}{20} = \dfrac{13}{26} = \dfrac{15}{30}$

$\dfrac{1}{5} = \dfrac{2}{10} = \dfrac{3}{15} = \dfrac{4}{20} = \dfrac{5}{25} = \dfrac{6}{30} = \dfrac{7}{35}$

$\therefore \dfrac{1}{3}, \dfrac{1}{2}, \dfrac{1}{5}$ from the smallest is $\dfrac{1}{5}, \dfrac{1}{3}, \dfrac{1}{2}$

ACTIVITY:

Arrange the following fraction starting with the largest?

1. $\frac{2}{6}, \frac{1}{6}, \frac{4}{6}$

2. $\frac{3}{3}, \frac{1}{3}, \frac{2}{3}$

3. $\frac{1}{3}, \frac{1}{2}, \frac{1}{4}$

4. $\frac{1}{4}, \frac{1}{6}, \frac{1}{3}$

5. $\frac{3}{4}, \frac{5}{8}, \frac{1}{4}$

LESSON II

TOPIC   :   FRACTIONS
SUBTOPIC: Operation on fractions
CONTENT :   Addition of fractions with the same denominators

Example: 1

$$\frac{1}{5} + \frac{2}{5} = \frac{1+2}{5} = \frac{3}{5}$$

Example II

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

ACTIVITY:
Add the fractions

1. a) $\frac{1}{5} + \frac{1}{5}$ b) $\frac{1}{7} + \frac{1}{7}$

2. a) $\frac{1}{5} + \frac{2}{5}$ b) $\frac{1}{9} + \frac{3}{9}$

3. a) $\frac{2}{5} + \frac{1}{5}$ c) $\frac{4}{6} + \frac{1}{6}$

4. a) $\frac{3}{8} + \frac{2}{8}$ b) $\frac{2}{4} + \frac{1}{4}$

5. a) $\frac{3}{6} + \frac{2}{6}$ b) $\frac{4}{8} + \frac{3}{8}$

LESSON III

TOPIC: FRACTIONS
SUBTOPIC: **Addition of fractions with the same denominator in word involving word problem.**

CONTENT :   Jesca dug $\frac{1}{6}$ of the garden and Mary dug $\frac{4}{6}$ of the garden. What part of the garden was dug?

Jesca dug $\frac{1}{6}$

Mary dug $\frac{4}{6}$ so $\frac{1}{6}$ + $\frac{4}{6}$ = $\frac{1+4}{6}$ = $\frac{5}{6}$

ACTIVITY:

1. In a school, $\frac{1}{9}$ of its enrollment is in P.1 and $\frac{2}{9}$ is in P.2 and $\frac{4}{9}$ is in P.3 What fraction of the school enrollment is in the three classes?

2. Mary shared $\frac{1}{4}$ of the cake and Tom also got of $\frac{1}{4}$ the cake. what fraction of the cake did they share?

3. John got an $\frac{1}{8}$ of a loaf of bread, Peter got $\frac{3}{8}$ of the bread and Mary got $\frac{2}{8}$ of the bread. What part of the loaf of bread did they share?

4. Kapere got $\frac{6}{7}$ of a liter of milk from his mother got and $\frac{1}{7}$ of a liter of milk from his father. What amount of milk did he get all together?

5. A mother gave out $\frac{1}{5}$ of her cooking oil to Joshua and she gave $\frac{3}{5}$ to Jane. What fraction of the cooking oil did the mother give out

LESSON IV

TOPIC: FRACTIONS
SUBTOPIC: **Subtraction of fractions with the same denominators.**
CONTENT :
Example
i) $\frac{3}{3}$ - $\frac{1}{3}$ = $\frac{3-1}{3}$ = $\underline{\underline{\frac{2}{3}}}$

ii) $\frac{5}{7}$ - $\frac{2}{7}$ = $\frac{5-2}{7}$ = $\underline{\underline{\frac{3}{7}}}$

Subtract the following

1. a) $\frac{2}{3} - \frac{1}{3}$ b) $\frac{2}{2} - \frac{1}{2}$

2. a) $\frac{3}{5} - \frac{2}{5}$ b) $\frac{3}{7} - \frac{2}{7}$

3. a) $\frac{5}{8} - \frac{2}{8}$ b) $\frac{4}{4} - \frac{3}{4}$

4. a) $\frac{6}{7} - \frac{2}{7}$ b) $\frac{7}{9} - \frac{5}{9}$

5. a) $\frac{8}{8} - \frac{3}{8}$ b) $\frac{9}{16} - \frac{7}{16}$

LESSON V

TOPIC: FRACTIONS
SUBTOPIC: Subtraction of fractions with the same denominators involving word problem.
CONTENT :

Example 1: Subtraction $\frac{2}{7}$ from $\frac{5}{7}$

$$\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \underline{\underline{\frac{3}{7}}}$$

Example 2

Andrew had $\frac{7}{9}$ of a cake, he ate $\frac{5}{9}$ of it. What fraction remained?

Andrew had $\frac{7}{9}$ he ate $\frac{5}{9}$

$$\therefore \frac{7}{9} - \frac{5}{9} = \frac{7-5}{9} = \frac{2}{9}$$

ACTIVITY:

1. $\frac{6}{9}$ takeaway $\frac{3}{9}$

2. Subtract $\frac{2}{7}$ $from$ $\frac{5}{7}$

3. What's the difference between $\frac{5}{10}$ and $\frac{1}{10}$

4. Okello $\frac{5}{11}$ had of the jack fruit. If he $\frac{2}{11}$ gave to Odong, what fraction of the jack fruit did okello remain with?

5. Kato got $\frac{6}{7}$ of a liter of juice and on the way $\frac{2}{7}$ of it got poured. What fraction of the juice did he remain with?