



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Week : 4th of 2nd Term

Grade 7

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Unit 10 – Fractions

✓ Subtraction of fractions

Example 01: $\frac{5}{7} - \frac{2}{7}$

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

$$= \frac{3}{7}$$

Ex 02 : $\frac{5}{6} - \frac{1}{3}$

$$= \frac{5}{6} - \frac{1 \times 2}{3 \times 2}$$

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

$$= \frac{3}{6}$$

$$= \frac{1}{2}$$

Ex 03 : $\frac{7}{8} - \frac{2}{3}$

$$= \frac{7 \times 3}{8 \times 3} - \frac{2 \times 8}{3 \times 8}$$

$$= \frac{21}{24} - \frac{16}{24}$$

$$= \frac{21-16}{24}$$

$$= \frac{5}{24}$$

✓ Subtracting mixed numbers:

Example : $3\frac{3}{5} - 2\frac{1}{5}$

Method I = $(3-2) + (\frac{3}{5} - \frac{1}{5})$

$$= 1 + (\frac{3-1}{5})$$

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

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

Method II $3\frac{3}{5} - 2\frac{1}{5}$

$$= \frac{18}{5} - \frac{11}{5}$$

$$= \frac{7}{5}$$

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

Example 02 : $4\frac{3}{7} - 2\frac{1}{2}$

➤ Converting mixed numbers in to improper fractions

$$\frac{31}{7} - \frac{5}{2}$$

➤ Convert to same denominators by equivalent fractions

$$\frac{31 \times 2}{7 \times 2} - \frac{5 \times 7}{2 \times 7}$$

➤ Subtraction numerators with same denominators

$$\frac{62}{14} - \frac{35}{14}$$

➤ Converting improper fraction as mixed number

$$\frac{62-35}{14}$$

$$= \frac{27}{14} = 1\frac{13}{14}$$

Exercises

Evaluate the following

(i) $\frac{3}{4} - \frac{1}{4}$

(ii) $\frac{7}{8} - \frac{2}{8}$

(iii) $\frac{11}{13} - \frac{5}{13}$

(iv) $\frac{3}{4} - \frac{2}{3}$

(v) $\frac{17}{15} - \frac{5}{6}$

(vi) $\frac{5}{7} - \frac{2}{5}$

(vii) $3\frac{2}{7} - 2\frac{1}{7}$

(viii) $4\frac{5}{8} - \frac{3}{4}$

(ix) $5\frac{1}{4} - 2\frac{3}{5}$

(x) $3\frac{1}{4} - 1\frac{5}{6}$

(xi) $5\frac{1}{2} - 3\frac{3}{4}$

(xii) $2\frac{5}{8} - \frac{3}{4}$

Mixed Exercises :

01. Evaluate the following

i $\frac{3}{7} + \frac{2}{7}$

ii $\frac{1}{8} + \frac{5}{8}$

iii $\frac{1}{2} + \frac{1}{4}$

iv $\frac{7}{15} + \frac{2}{5}$

v $\frac{3}{8} + \frac{1}{6}$

vi $\frac{1}{4} + \frac{1}{6}$

vii $\frac{2}{3} + \frac{1}{4} + \frac{1}{6}$

viii $\frac{5}{12} + \frac{3}{8} + \frac{1}{6}$

02. Evaluate the following

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

ii $2\frac{1}{4} + 3\frac{1}{2}$

iii $1\frac{3}{4} + 1\frac{5}{6}$

iv $2\frac{2}{3} + 3\frac{1}{4}$

v $3\frac{5}{6} + 1\frac{3}{8}$

vi $2\frac{4}{9} + 1\frac{5}{6} + \frac{2}{3}$

vii $1\frac{3}{4} + 3\frac{1}{2} + 1\frac{2}{3}$

viii $3\frac{2}{5} + 1\frac{7}{12}$

03. Evaluate the following

i $\frac{3}{5} - \frac{1}{5}$

ii $\frac{4}{7} - \frac{2}{7}$

iii $\frac{3}{5} - \frac{1}{10}$

iv $\frac{5}{8} - \frac{1}{2}$

v $\frac{3}{5} - \frac{1}{2}$

vi $\frac{3}{4} - \frac{5}{12}$

vii $\frac{5}{6} - \frac{3}{8}$

viii $\frac{11}{12} - \frac{5}{8}$

04. Evaluate the following

i $2\frac{2}{3} - 1\frac{1}{6}$

ii $3\frac{2}{15} - 1\frac{4}{5}$

iii $4\frac{3}{5} - 1\frac{1}{2}$

iv $3\frac{2}{5} - 1\frac{1}{4}$

v $3\frac{5}{8} - 2\frac{1}{6}$

vi $5\frac{1}{6} - 3\frac{5}{9}$

✓ Do the exercises of the text book 10.5 and 10.6