Al - MOATTASEM INTERNATIONAL SCHOOL
FINAL TERM REVISION

MATHEMATICS - LEVEL 3

Revision Worksheet # 2 SOLVED

Chapter:6 "Fraction"

Q:1: Change each of the following improper fraction to mixed numbers. Show your workings clearly:

a. $\frac{13}{4}$

Workings

$\frac{13}{4}$ = 13 ÷ 4

$$4\overline{)\,13}\quad 3,\ 1$$

$= 3\frac{1}{4}$ = 1 R, 3 W

b. $\frac{9}{2}$

Workings

$\frac{9}{2}$ = 9 ÷ 2

$$2\overline{)\,9}\quad 4,\ 1$$

$= 4\frac{1}{2}$ = 1 R, 4 W

Q: 2: Change each of the following mixed numbers to improper fractions. Show your workings clearly:

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

Workings

$$= \frac{D \times W + N}{D} = \frac{(2 \times 3) + 1}{2}$$

$$= \frac{6 + 1}{2} = \frac{7}{2}$$

b. $5\frac{5}{6}$

Workings

$$= \frac{D \times W + N}{D} = \frac{(6 \times 5) + 5}{6}$$

$$= \frac{30 + 5}{6} = \frac{35}{6}$$

Q:3: Add the following fractions. Leave the answer in the simplest form.

a. $\frac{2}{8} + \frac{4}{8}$

Workings

$= \frac{2}{8} + \frac{4}{8}$

$= \frac{2 + 4}{8}$

$= \frac{6}{8}$

b. $\frac{1}{4}$ and $\frac{3}{12}$

Workings

$= \frac{1}{4} + \frac{3}{12}$

$= \frac{1 \times 3}{4 \times 3} + \frac{3}{12}$

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

$= \frac{3 + 3}{12} = \frac{6}{12}$

$= \frac{6}{12} \div 2 = \frac{3}{6} \div 2 = \frac{1}{2}$

Q:4: Subtract the following fractions. Leave the answer in the simplest form.

a. $\frac{3}{7}$ from $\frac{7}{7}$

Workings

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

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

$$= \frac{4}{7}$$

b. $\frac{1}{3} - \frac{1}{6}$

Workings

$$= \frac{1}{3} - \frac{1}{6}$$

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

$$= \frac{2}{6} - \frac{1}{6}$$

$$= \frac{2 - 1}{6}$$

$$= \frac{1}{6}$$

Q:5: Word Problem:

1. **Saif and Judy bought a cake. Saif ate $\frac{1}{9}$ of the cake and Judy ate $\frac{4}{9}$ of the cake.**

a. **What fraction of the cake did Saif and Judy eat altogether?**
b. **What fraction of the cake was left?**

SOLUTION:

Fraction of cake Saif ate = $\frac{1}{9}$

Fraction of cake Judy ate = $\frac{4}{9}$

Fraction of cake they ate together = $\frac{1}{9} + \frac{4}{9}$

$= \frac{1 + 4}{9} = \frac{5}{9}$

Fraction of cake left = $\frac{9}{9} - \frac{5}{9} = \frac{9 - 5}{9} = \frac{4}{9}$