المدرسة الوطنية الأرثوذكسية الشميساني

The National Orthodox School Shmaisani

The Primary Stage of Grades (4-5)

Second Semester 2022 - 2023

Name: Answer Key **Subject:** Mathematics

Date: / / **Worksheet(3)** **Class:** Grade 5 (C,D,E,F&G)

Objectives:

Converting improper fractions to mixed numbers.
Converting mixed numbers to improper fractions.
Comparing and ordering fractions.
Converting fractions to decimals and vis versa.

1) Change the following improper fractions into mixed numbers :

a) $\frac{27}{5}$ = $5\frac{2}{5}$

b) $\frac{45}{8}$ = $5\frac{5}{8}$

c) $\frac{74}{6}$ = $12\frac{2}{6} = 12\frac{1}{3}$

d) $\frac{83}{4}$ = $20\frac{3}{4}$

e) $\frac{63}{11}$ = $5\frac{8}{11}$

f) $\frac{96}{5}$ = $19\frac{1}{5}$

2) Change the following mixed numbers into improper fractions:

a) $6\frac{3}{5}$ = $\frac{33}{5}$ (6 × 5 + 3)

b) $13\frac{1}{4}$ = $\frac{53}{4}$

c) $2\frac{10}{17}$ = $\frac{44}{17}$

d) $9\frac{2}{7}$ = $\frac{65}{7}$

e) $3\frac{7}{12}$ = $\frac{43}{12}$

f) $8\frac{5}{9}$ = $\frac{77}{9}$

3) Write < , > or = to make statements true :

a) $\frac{3}{7}$ > $\frac{3}{11}$

b) $\frac{14}{24}$ < $\frac{5}{8}$ ($\frac{5 \times 3}{8 \times 3} = \frac{15}{24}$)

c) $\frac{25}{7}$ > $\frac{25}{9}$

d) $\frac{19}{4}$ > $4\frac{3}{5}$ ($\frac{19}{4} = 4\frac{3}{4}$)

e) $\frac{13}{4}$ = $\frac{26}{8}$ ($\frac{13 \times 2}{4 \times 2} = \frac{26}{8}$)

f) $7\frac{3}{5}$ = $7\frac{6}{10}$ ($7\frac{3 \times 2}{5 \times 2} = 7\frac{6}{10}$)

4) Order the following fractions starting with the smallest :

a) $\frac{4}{7}$, $\frac{1\times4}{12\times4}$ ($\frac{4}{48}$) , $\frac{1\times4}{8\times4}$ ($\frac{4}{32}$) , $\frac{1\times4}{2\times4}$ ($\frac{4}{8}$)

$\frac{1}{12} < \frac{1}{8} < \frac{1}{2} < \frac{4}{7}$

b) $\frac{3\times3}{4\times3}$ ($\frac{9}{12}$) , $\frac{1\times4}{3\times4}$ ($\frac{4}{12}$) , $\frac{7}{12}$, $\frac{5\times2}{6\times2}$ ($\frac{10}{12}$)

$\frac{1}{3} < \frac{7}{12} < \frac{3}{4} < \frac{5}{6}$

c) $\frac{3\times25}{4\times25}$ ($\frac{75}{100} = 0.75$) , 0.65 , $\frac{4\times20}{5\times20}$ ($\frac{80}{100} = 0.80$) , 0.09

$0.09 < 0.65 < \frac{3}{4} < \frac{4}{5}$

5) Convert the following fractions into decimals .

a) $\frac{3}{5} \times \frac{2}{2} = \frac{6}{10} = 0.6$

b) $\frac{7}{8} \times \frac{125}{125} = \frac{875}{1000} = 0.875$

OR

$$\begin{array}{r|l} & 0.875 \\ 8 & 70 \\ & 64 \\ & 60 \\ & 56 \\ & 40 \\ & 40 \\ & 00 \end{array}$$

c) $9\frac{7}{25} \times \frac{4}{4} = 9\frac{28}{100} = 9.28$

d) $3\frac{9}{50} \times \frac{2}{2} = 3\frac{18}{100} = 3.18$

e) $\frac{11}{20} \times \frac{5}{5} = \frac{55}{100} = 0.55$

f) $5\frac{1}{4} \times \frac{25}{25} = 5\frac{25}{100} = 5.25$

6) Write the following decimals as fractions in their simplest form .

a) $0.\underline{04} = \frac{4}{100} \div 4 = \frac{1}{25}$

b) $3.\underline{2} = 3\frac{2}{10} \div 2 = 3\frac{1}{5}$

c) $7.\underline{125} = 7\frac{125}{1000} \div 125 = 7\frac{1}{8}$

d) $9.\underline{008} = 9\frac{8}{1000} \div 8 = 9\frac{1}{125}$

e) $34.\underline{25} = 34\frac{25}{100} = 34\frac{1}{4}$

f) $0.\underline{45} = \frac{45}{100} \div 5 = \frac{9}{20}$