

The Primary Stage of Grades (4-5)
School Year 2022 – 2023

Name: Key
Date: / /

Subject: Math
Class: Grade 4 CP (C, D, E, F&G)

Worksheet (4)

Objectives: Change improper fractions into mixed numbers.
Change mixed numbers into improper fractions.
Write the fractions in the simplest form.
Add and subtract fractions.

1) Write the following as a mixed number and simplify your answer when needed.

a) $\frac{47}{8} = 5\frac{7}{8}$ (with 40 written above 47)

b) $\frac{29}{6} = 4\frac{5}{6}$ (with 24 written above 29)

c) $\frac{23}{5} = 4\frac{3}{5}$ (with 20 written above 23)

d) $\frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$ (with 10 written above 15)

e) $\frac{9}{4} = 2\frac{1}{4}$

f) $\frac{18}{8} = 2\frac{2}{8} = 2\frac{1}{4}$

g) $\frac{43}{4} = 10\frac{3}{4}$

h) $\frac{56}{6} = 9\frac{2}{6} = 9\frac{1}{3}$ (with 54 written above 56)

i) $\frac{75}{9} = 8\frac{3}{9} = 8\frac{1}{3}$ (with 72 written above 75)

j) $\frac{50}{7} = 7\frac{1}{7}$ (with 49 written above 50)

2) Write the following as improper fractions.

$$\text{a) } \frac{3 \frac{6}{9}}{1} = \frac{33}{9}$$

same

$$\text{b) } \frac{4 \frac{3}{8}}{1} = \frac{35}{8}$$

$$\text{c) } \frac{10 \frac{5}{7}}{1} = \frac{75}{7}$$

$$\text{d) } \frac{11 \frac{4}{11}}{1} = \frac{125}{11}$$

$$\text{e) } \frac{5 \frac{4}{6}}{1} = \frac{34}{6}$$

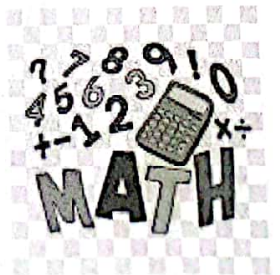
$$\text{f) } \frac{6 \frac{2}{10}}{1} = \frac{62}{10}$$

$$\text{g) } \frac{9 \frac{5}{8}}{1} = \frac{77}{8}$$

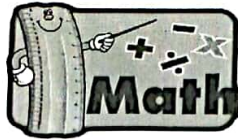
$$\text{h) } \frac{20 \frac{7}{10}}{1} = \frac{207}{10}$$

$$\text{i) } \frac{5 \frac{2}{9}}{1} = \frac{47}{9}$$

$$\text{j) } \frac{3 \frac{1}{40}}{1} = \frac{121}{40}$$



3) Find the total of the following fractions and simplify your answer when possible.



$$1) \frac{2 \times 1}{2 \times 4} + \frac{5}{8} =$$

$$\frac{2}{8} + \frac{5}{8} = \frac{7}{8}$$

$$2) \frac{9}{16} + \frac{3 \times 2}{8 \times 2} =$$

$$\frac{9}{16} + \frac{6}{16} = \frac{15}{16}$$

$$3) 1 \frac{2 \times 3}{3 \times 5} + 2 \frac{7}{15} =$$

$$\textcircled{1} \frac{6}{15} + \textcircled{2} \frac{7}{15} =$$

$$3 \frac{13}{15}$$

$$4) 2 \frac{6}{21} + \frac{3 \times 3}{7 \times 3} =$$

$$2 \frac{6}{21} + \frac{9}{21} =$$

$$2 \frac{15 \div 3}{21 \div 3} = 2 \frac{5}{7}$$

$$5) \frac{8}{81} + \frac{1 \times 9}{9 \times 9} =$$

$$\frac{8}{81} + \frac{9}{81} = \frac{17}{81}$$

$$6) \frac{7 \times 3}{7 \times 10} + \frac{25}{70} =$$

$$\frac{21}{70} + \frac{25}{70} = \frac{46 \div 2}{70 \div 2}$$

$$\frac{23}{35}$$

$$7) \frac{2 \times 2}{4 \times 3} + 3 \frac{1 \times 3}{4 \times 3} =$$

$$2 \frac{8}{12} + 3 \frac{3}{12} =$$

$$5 \frac{11}{12}$$

$$8) 1 \frac{1 \times 7}{2 \times 7} + 2 \frac{3 \times 2}{7 \times 2} =$$

$$1 \frac{7}{14} + 2 \frac{6}{14} =$$

$$3 \frac{13}{14}$$

4) Find the difference between the following fractions and simplify your answer when possible.



$$1) \frac{5 \times 1}{5 \times 2} - \frac{1}{10} =$$

$$\frac{5}{10} - \frac{1}{10} = \frac{4 \div 2}{10 \div 2} = \frac{2}{5}$$

$$2) \frac{6 \times 4}{6 \times 6} - \frac{14}{36} =$$

$$\frac{24}{36} - \frac{14}{36} = \frac{10 \div 2}{36 \div 2} = \frac{5}{18}$$

$$3) 4 \frac{5}{12} - 1 \frac{1 \times 2}{6 \times 2} =$$

$$4 \frac{5}{12} - 1 \frac{2}{12} = 3 \frac{3}{12} = 3 \frac{3 \div 3}{12 \div 3} = 3 \frac{1}{4}$$

$$4) 5 \frac{3 \times 5}{5 \times 9} - 2 \frac{3}{45} =$$

$$5 \frac{15}{45} - 2 \frac{3}{45}$$

$$3 \frac{12 \div 3}{45 \div 3} = 3 \frac{4}{15}$$

$$5) \frac{25 \times 3}{25 \times 4} - \frac{50}{100} =$$

$$\frac{75}{100} - \frac{50}{100} = \frac{25 \div 25}{100 \div 25}$$

$$= \frac{1}{4}$$

$$6) \frac{6 \times 6}{7 \times 6} - \frac{30}{42} =$$

$$\frac{36}{42} - \frac{30}{42} =$$

$$\frac{6 \div 6}{42 \div 6} = \frac{1}{7}$$

$$7) 2 \frac{4 \times 3}{3 \times 5} - 1 \frac{2 \times 5}{3 \times 5} =$$

$$2 \frac{12}{15} - 1 \frac{10}{15} = 1 \frac{2}{15}$$

$$8) 4 \frac{6 \times 5}{7 \times 5} - 2 \frac{4}{35} =$$

$$4 \frac{30}{35} - 2 \frac{4}{35}$$

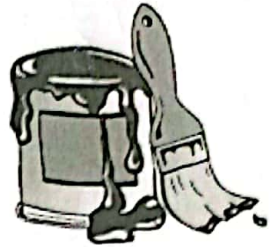
$$2 \frac{26}{35}$$

5) Answer the following questions.

a) Adam bought $3\frac{1}{2}$ gallons of paint for his room. He used $1\frac{2}{8}$ gallons. How much paint is left?

$$3\frac{1 \times 4}{2 \times 4} - 1\frac{2}{8} =$$

$$3\frac{4}{8} - 1\frac{2}{8} = 2\frac{2}{8} = 2\frac{1}{4} \text{ paint left}$$



b) For a recipe, Elaina needs $\frac{2}{3}$ cup of white flour and $3\frac{2}{8}$ cup of wheat flour. How much flour does she need for the recipe in total from both kinds?

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

$$\frac{16}{24} + 3\frac{6}{24} = \frac{32}{24} = 3\frac{11}{12} \text{ flour she used in Total}$$



c) Linzy and Conny decide to walk on the track. Linzy walks $2\frac{2}{3}$ miles.

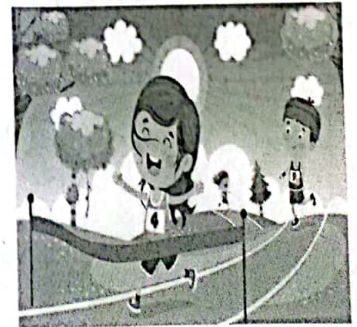
Conny walks $1\frac{1}{6}$ less than Linzy.

i) How many miles does Conny walk?

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

$$2\frac{4}{6} - 1\frac{1}{6} = 1\frac{3}{6} \text{ miles Conny walks}$$

$$= 1\frac{1}{2} \text{ miles Conny walks.}$$



OR: $1\frac{3}{6} + 2\frac{2 \times 2}{3 \times 2} = 1\frac{3}{6} + 2\left(\frac{4}{6}\right) = 3\frac{7}{6}$
 $= 4\frac{1}{6}$

ii) What is the total distance they both walked?

Conny $1\frac{1 \times 3}{2 \times 3} + 2\frac{2 \times 2}{3 \times 2}$ Linzy
 $1\frac{3}{6} + 2\frac{4}{6} = 3\frac{7}{6}$ miles they both walked.
 $= 4\frac{1}{6}$

$\frac{7}{6} = 1\frac{1}{6}$ [1+3=4]

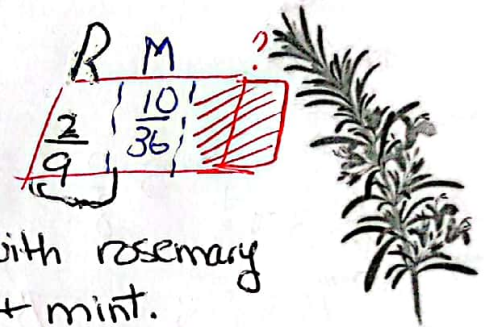


d) Aunt Linda planted rosemary in $\frac{2}{9}$ of her garden. She planted mint in $\frac{10}{36}$ from her garden, and she planted the rest of her garden with Basil.

i) What fraction of the garden is planted with rosemary and mint together?

$\frac{4 \times 2}{4 \times 9} + \frac{10}{36} =$

$\frac{8}{36} + \frac{10}{36} = \frac{18}{36} = \frac{1}{2}$ planted with rosemary + mint.



ii) What fraction of the garden is planted with Basil?

Whole garden + whole = $\frac{36}{36}$

$\frac{36}{36} - \frac{18}{36} = \frac{18}{36} = \frac{1}{2}$ OR

1 whole - $\frac{1}{2} = \frac{1}{2}$ planted w/ Basil

