

# Worksheet (5) |

Lower Secondary  
Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

Subject: Math

Name: \_\_\_\_\_

Objectives:

- To add fractions and mixed numbers.

Chapter: 6 (Fractions)

Grade 6 CS

## Adding fractions

**Remember**, we have to check that the **denominators** are **equal**.

If **not**, you **can't** do the addition.

**Example 1:**  $4\frac{2}{5} + 6\frac{1}{5}$

You have two ways to solve this:

### Option 1

Change into improper fractions,

$$\frac{22}{5} + \frac{31}{5} = \frac{53}{5} \text{ (change your answer into a mixed number) } = 10\frac{3}{5}$$

### Option 2:

Add the whole numbers first,

$$4 + 6 = 10$$

Then,

$$10 + \frac{2}{5} + \frac{1}{5} = 10\frac{3}{5}$$

**Example 2:**  $3\frac{2}{4} + 2\frac{7}{8}$

Add the whole numbers.

$$3 + 2 = 5$$

(Then, multiply 4 by 2 to make common denominators)

$$5 + \frac{2 \times 2}{4 \times 2} + \frac{7}{8}$$

$$5 + \frac{4}{8} + \frac{7}{8}$$

$$5 + \frac{11}{8} \text{ (change it into a mixed number)}$$

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

$$6\frac{3}{8}$$

**Or you can change into improper fractions and solve it.**

***Don't forget to simplify if needed***

**Example: Workout and simplify if needed.**

a)  $\frac{9}{10} + \frac{11}{20}$

b)  $\frac{8}{9} + \frac{6}{7}$

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

d)  $5\frac{1}{6} + 3\frac{5}{9}$

e)  $4\frac{3}{7} + 3\frac{3}{5}$

f)  $3\frac{2}{3} + 5\frac{3}{4}$

g)  $6\frac{13}{15} + 3\frac{4}{5}$

h)  $4\frac{3}{8} + 7\frac{3}{7}$

i)  $9\frac{7}{8} + 3\frac{3}{4}$

j)  $8\frac{4}{7} + 9\frac{10}{14}$

**Word problems.**

**Problem 1:**

A bag of sugar has a mass of  $2\frac{3}{8}$  kg. A second bag has a mass of  $3\frac{9}{16}$  kg.

What mass of sugar is there altogether?

**Problem 2:**

Sarah baked a cake and ate  $2\frac{1}{3}$  of it, while her brother John ate  $3\frac{1}{4}$  of the same cake.

How much of the cake did they eat together?

**Problem 3:**

Three pieces of carpet  $3\frac{1}{5}$  meters,  $4\frac{3}{4}$  meters and  $2\frac{1}{2}$  meters long are joined together.

How long is the joined carpet?