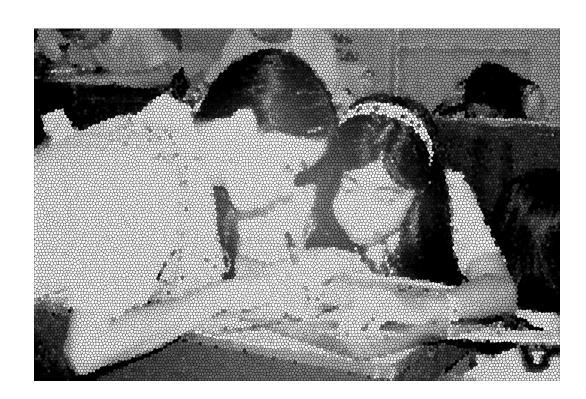
Μ Α Τ Η Ε Μ Α Т С S 5

Modified In-School Off-School Approach Modules (MISOSA) Distance Education for Elementary Schools SELF-INSTRUCTIONAL MATERIALS



ADDITION OF MIXED FORMS



Department of Education BUREAU OF ELEMENTARY EDUCATION 2nd Floor Bonifacio Building DepEd Complex, Meralco Avenue Pasig City

Revised 2010

by the Learning Resource Management and Development System (LRMDS), DepEd - Division of Negros Occidental under the Strengthening the Implementation of Basic Education in Selected Provinces in the Visayas (STRIVE).

Section 9 of Presidential Decree No. 49 provides:

"No copyright shall subsist in any work of the Government of the Republic of the Philippines. However, prior approval of the government agency or office wherein the work is created shall be necessary for exploitation of such work for profit."

This material was originally produced by the Bureau of Elementary Education of the Department of Education, Republic of the Philippines.

This edition has been revised with permission for online distribution through the Learning Resource Management Development System (LRMDS) Portal (http://Irmds.deped.gov.ph/) under Project STRIVE for BESRA, a project supported by AusAID.



ADDITION OF MIXED FORMS

Objective: Add mixed forms



Find the sum.

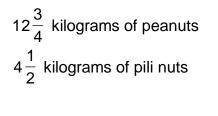
| 1) | $1\frac{2}{3} + \frac{1}{5}$ | a. | $4\frac{39}{40}$ |
|----|------------------------------|----|-------------------------|
| 2) | $4\frac{3}{5} + \frac{3}{8}$ | b. | $4\frac{1}{3}$ |
| 3) | $6\frac{1}{4} + \frac{3}{7}$ | C. | 1 <mark>13</mark> 15 |
| 4) | $3\frac{5}{6} + \frac{1}{2}$ | d. | $3\frac{3}{20}$ |
| 5) | $2\frac{2}{5} + \frac{3}{4}$ | e. | $6\frac{19}{28}$ |



You have already learned how to add a mixed number and a simple fraction with a different denominator. This time you will learn how to add mixed numbers.

Let's read the story problem below.

Cindy helps her mother sell different kinds of nuts on Saturdays. Last Saturday, they were able to sell:



 $8\frac{8}{10}$ kilograms of cashew nuts $3\frac{1}{5}$ kilograms of almonds





What does Cindy do on Saturday?

Knowing that this is what she does on Saturdays, how can you describe the kind of girl that she is?

What things do you do that make you similar to Cindy?

How many kilos of peanuts and pili nuts were Cindy and her mother able to sell?

What is the correct number sentence?

$$12\frac{3}{4} + 4\frac{1}{2} = n$$

Let's solve this step by step.

| STEP 1 | Change the fractional parts to similar fractions using the Least Common Denominator (LCD) | $12\frac{3}{4} = 12\frac{3}{4} + 4\frac{1}{2} = +4\frac{2}{4}$ |
|--------|--|---|
| STEP 2 | Add the fractions, then the whole numbers. | $12\frac{3}{4}$ + $4\frac{2}{4}$ $16\frac{5}{4}$ |
| STEP 3 | Change the improper fraction in the answer to mixed form. Add this to the whole number. Reduce the answer to its lowest term if necessary. | $\frac{5}{4} = 1\frac{1}{4}$ 16 + 1 $\frac{1}{4}$ = 17 $\frac{1}{4}$ |

So,
$$12\frac{3}{4} + 4\frac{1}{2} = 17\frac{1}{4}$$

Therefore, Cindy and her mother were able to sell $17\frac{1}{4}$ kilograms of peanuts and pili nuts.

Were you able to follow the steps?





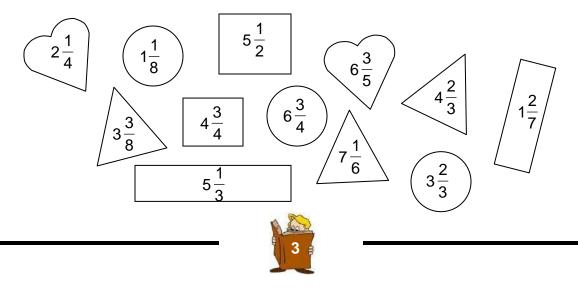
This time, let's try to find out how many kilograms of nuts they were able to sell last Saturday.

Since we already have the number of kilograms of peanuts and pili nuts just add this to the number of kilograms of almonds and cashew nuts sold. What would be our number sentence this time?

$$17\frac{1}{4} + 8\frac{7}{10} + 3\frac{1}{5} = n$$

Let's solve. STEP 1 $17\frac{1}{4} = 17\frac{5}{20}$ $17\frac{1}{4} = 17\frac{5}{20}$ $8\frac{8}{10} = 8\frac{16}{20}$ $+ 3\frac{1}{5} = 3\frac{4}{20}$ $28\frac{25}{20}$ STEP 2 $28+1\frac{5}{20} = 29\frac{5}{20} = 29\frac{1}{4}$ Try These

A. Add the mixed forms that are in the same shape. Simplify your answer.







In adding mixed forms:

- Change the fractional parts to similar fractions.
- Add the fractions, then the whole numbers.
- If the fractional part of the answer is an improper fraction, change it to a proper fraction and add this to the whole number.
- Reduce the answer to its lowest terms if necessary.



Add the mixed forms in each of the following:

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

2) $10\frac{2}{3} + 2\frac{5}{6} + 3\frac{1}{4}$
3) $3\frac{4}{11} + 2\frac{1}{2}$
4) $8\frac{1}{5} + 2\frac{4}{15}$
5) $5\frac{6}{25} + 2\frac{4}{5} + 4\frac{1}{4}$





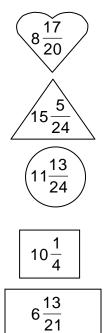
Key to Correction ADDITION OF MIXED FORMS

REVIEW

- 1) c
- 2) a 3) e 4) b

- 5) d

TRY THESE



ON YOUR OWN

- 1) $6\frac{9}{20}$
- 2) $16\frac{3}{4}$
- 3) $5\frac{19}{22}$

- 4) $10\frac{7}{15}$ 5) $12\frac{29}{100}$

