

Name: Grade &
Section: Date
Submitted:

ADDING / SUBTRACTING MIXED NUMBERS

I. BACKGROUND INFORMATION

This activity sheet reinforces the skill in adding or subtracting mixed dissimilar fractions.

- A. Add/subtract the whole numbers and also add/subtract the fractional part.

Example: $1\frac{3}{5} + 2\frac{1}{5}$

$$1\frac{3}{5} + 2\frac{1}{5} \longrightarrow (1 + 2) + \left(\frac{3}{5} + \frac{1}{5}\right)$$

$$3 + \frac{4}{5} = 3\frac{4}{5}$$

therefore $1\frac{3}{5} + 2\frac{1}{5} = 3\frac{4}{5}$

- B. There are cases that the fractional parts cannot be subtracted. **Regrouping** means you need to borrow one from a whole number to make the fraction of the minuend larger than the fraction of the subtrahend.

Example: $4\frac{1}{5} - 2\frac{3}{5}$

$$4\frac{1}{5} \longrightarrow 3\frac{6}{5}$$

Borrow 1 from 4 and change to fraction $1 = \frac{5}{5}$ then add to $\frac{1}{5}$

$$\begin{array}{r} 3\frac{6}{5} \\ -2\frac{3}{5} \\ \hline 1\frac{3}{5} \end{array}$$

Subtract the whole numbers then subtract the fractions

II. LEARNING COMPETENCY

- Adds and subtracts mixed fractions

III. REFERENCES

SLM pp. 6-7 | 21st Century Mathletes pp. 2-13

IV. DIRECTIONS

Learning Task #6: Add or subtract the following fractions. Fill-in the empty boxes to complete the solution leading to the final answer. Remember to always simplify your answer to lowest terms.

GIVEN	SOLUTION	FINAL ANSWER
1) $5\frac{4}{7} + \frac{2}{9} =$	$\square + \left(\frac{\square}{\square} + \frac{\square}{9}\right) = \square + \left(\frac{\square + \square}{63}\right) = \square \frac{\square}{\square}$	$\square \frac{\square}{\square}$
2) $\frac{5}{6} + 2\frac{1}{2} =$	$\square + \left(\frac{\square}{6} + \frac{\square}{2}\right) = \square + \left(\frac{\square + \square}{\square}\right) = \square \frac{\square}{\square}$	$\square \frac{\square}{\square}$
3) $1\frac{2}{6} + \frac{5}{12} + 1\frac{1}{4} =$	$\left(\square + \square\right) + \left(\frac{\square}{6} + \frac{\square}{12} + \frac{\square}{\square}\right) = \square \left(\frac{\square + \square + \square}{\square}\right) = \square \frac{\square}{\square}$	$\square \frac{\square}{\square}$
4) $3\frac{3}{4} - 1\frac{2}{5} =$	$\left(\square - \square\right) + \left(\frac{\square}{\square} - \frac{\square}{5}\right) = \square + \left(\frac{\square - \square}{\square}\right) = \square \frac{\square}{\square}$	$\square \frac{\square}{\square}$
5) $2\frac{3}{9} - 1\frac{2}{3} =$ regrouping: $\square \frac{\square}{9} - \square \frac{\square}{3}$	$\left(\square - \square\right) + \left(\frac{\square}{\square} - \frac{\square}{3}\right) = \square + \left(\frac{\square - \square}{\square}\right) = \square \frac{\square}{\square}$	$\square \frac{\square}{\square}$

