

ADDING MIXED NUMBERS

KNOWLEDGE FOR THE WORLD



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MIXED NUMBER

It is the union of an integer with a proper fraction; the union composed of an addition.

If $c \neq 0 \Rightarrow$

$$a \frac{b}{c} = a + \frac{b}{c} = \frac{ac + b}{c}$$

Mixed Numbers

EXAMPLE: Add the following mixed numbers:

$$3 \frac{2}{5} = \quad 4 \frac{1}{5} =$$

SOLUTION:

$$\begin{array}{r} + 3 \frac{2}{5} \\ 4 \frac{1}{5} \\ \hline 7 \frac{3}{5} \end{array} \quad \frac{2}{5} + \frac{1}{5} = \frac{3}{5} \quad 3 + 4 = 7$$

EXAMPLE: Add the following mixed numbers:

$$3 \frac{2}{5} = \quad 4 \frac{1}{5} =$$

JUSTIFICATION: 1) By definition:

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

Adding:

$$\left(3 + \frac{2}{5}\right) + \left(4 + \frac{1}{5}\right) = 3 + \frac{2}{5} + 4 + \frac{1}{5} =$$

Associative Law:

$$= (3 + 4) + \left(\frac{2}{5} + \frac{1}{5}\right) = 7 + \frac{3}{5} = 7 \frac{3}{5}$$

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