

# ADDING MIXED NUMBERS WITH COMMON DENOMINATORS

# ANSWERS

Add the mixed numbers. Make sure the final answer is in simplest form.

### HELPFUL EXAMPLE #1

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

YOU ARE ADDING MIXED NUMBERS WHICH MEANS YOU HAVE WHOLE NUMBERS AND FRACTIONS.

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

FIRST, ADD THE FRACTIONS. SINCE THEY ALREADY HAVE A COMMON DENOMINATOR (BOTTOM NUMBER) OF 5, YOU CAN JUST ADD THE NUMERATORS (TOP NUMBERS).

$$3 + 2 = 5$$

SECOND, QUICKLY ADD THE WHOLE NUMBERS.

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

LAST, PUT THE TWO ANSWERS TOGETHER. MAKE SURE IT IS IN SIMPLEST FORM.

$3 \frac{1}{5}$ $+ 2 \frac{2}{5}$	<p>SOME PEOPLE LIKE TO RE-WRITE THE PROBLEM LIKE THIS, SO YOU CAN SEE THE WHOLE NUMBERS AND FRACTIONS, BUT THAT IS UP TO YOU.</p>
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Now your turn.

1.  $4 \frac{2}{6} + 1 \frac{3}{6}$   
 **$5 \frac{5}{6}$**

2.  $6 \frac{1}{3} + 8 \frac{1}{3}$   
 **$14 \frac{2}{3}$**

3.  $4 \frac{5}{9} + 3 \frac{1}{9}$   
 **$7 \frac{2}{3}$**

*DON'T FORGET SIMPLEST FORM!*

4.  $4 \frac{3}{14} + 7 \frac{5}{14}$   
 **$11 \frac{4}{7}$**

5.  $5 \frac{9}{20} + 3 \frac{7}{20}$   
 **$8 \frac{4}{5}$**

6.  $6 \frac{2}{7} + \frac{4}{7}$   
 **$6 \frac{6}{7}$**

*ONE OF THEM DOES NOT HAVE A WHOLE NUMBER. SO  $6 + 0 = 6$ .*

### HELPFUL EXAMPLE #2

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

THIS IS AN IMPROPER FRACTION WHICH MEANS IT HAS A WHOLE NUMBER. ASK YOURSELF, "HOW MANY 5's GO INTO 7?" OR "WHAT IS 7 DIVIDED BY 5?" ONE 5 GOES INTO 7 AND YOU WILL HAVE 2 LEFT OVER.

FIRST, ADD THE FRACTIONS.  $\frac{4}{5} + \frac{3}{5} = \frac{7}{5} \rightarrow \frac{7}{5} = 1 \frac{2}{5}$

*YOU'RE CHANGING AN IMPROPER FRACTION INTO A MIXED NUMBER.*

SECOND, ADD THE WHOLE NUMBERS.  $2 + 1 = 3$

LAST, PUT THE TWO ANSWERS TOGETHER.  $3 + 1 \frac{2}{5} = 4 \frac{2}{5}$

Now your turn.

7.  $5 \frac{3}{4} + 2 \frac{1}{4}$   
 **$8$**

8.  $3 \frac{7}{9} + \frac{5}{9}$   
 **$4 \frac{1}{3}$**

9.  $2 \frac{4}{13} + 4 \frac{8}{13}$   
 **$6 \frac{12}{13}$**

10.  $4 \frac{6}{7} + 7 \frac{4}{7}$   
 **$12 \frac{3}{7}$**

11.  $5 \frac{15}{16} + 8 \frac{9}{16}$   
 **$14 \frac{1}{2}$**

12.  $9 \frac{5}{8} + 6 \frac{3}{8}$   
 **$16$**