

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.

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

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