

Math 105 Skill Builder # F - 9**Adding Fractions with the Same Denominator – No Simplification Required**

Step 1 Add the numerators.

Step 2 Write the sum over the common denominator.

For example,

$$\frac{3}{11} + \frac{5}{11} = \frac{3+5}{11} \quad \text{Add the numerators}$$

$$= \frac{8}{11} \quad \text{Retain the common denominator.}$$

The sum is already in lowest terms.

Examples:

Adding Fractions
$\frac{6}{15} + \frac{7}{15} = \frac{6+7}{15} = \frac{13}{15}$
$\frac{5}{8} + \frac{2}{8} = \frac{5+2}{8} = \frac{7}{8}$
$\frac{13}{25} + \frac{6}{25} = \frac{13+6}{25} = \frac{19}{25}$

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Perform the indicated operation:

1) $\frac{23}{50} + \frac{14}{50} =$

2) $\frac{2}{7} + \frac{6}{7} =$

3) $\frac{5}{13} + \frac{7}{13} =$

4) $\frac{2}{17} + \frac{13}{17} =$

5) $\frac{7}{18} + \frac{4}{18} =$

6) $\frac{1}{23} + \frac{9}{23} =$

Math 105 Skill Builder # F - 9

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Answers:

1) $\frac{37}{50}$

2) $\frac{8}{7}$

3) $\frac{12}{13}$

4) $\frac{15}{17}$

5) $\frac{11}{18}$

6) $\frac{10}{23}$

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