

Fractions: Adding fractions with different denominators.

Date:

Name:

Solve each problem below, showing all your working. Convert to mixed numbers if necessary.

[1] $\frac{8}{18} + \frac{10}{19}$	[2] $\frac{5}{6} + \frac{6}{9}$	[3] $\frac{2}{10} + \frac{5}{7}$
[4] $\frac{3}{8} + \frac{9}{14}$	[5] $\frac{1}{5} + \frac{2}{10}$	[6] $\frac{8}{13} + \frac{1}{4}$
[7] $\frac{5}{7} + \frac{6}{8}$	[8] $\frac{6}{9} + \frac{10}{18}$	[9] $\frac{9}{19} + \frac{9}{12}$
[10] $\frac{9}{15} + \frac{9}{18}$	[11] $\frac{8}{16} + \frac{8}{17}$	[12] $\frac{1}{6} + \frac{6}{9}$

ANSWERS

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<p>[1] $\frac{84}{181} + \frac{10}{19}$</p> <p>$\frac{84 \times 9}{171} + \frac{10 \times 9}{171}$</p> <p>$\frac{76 + 90}{171} = \frac{166}{171}$</p> <p>$\frac{166}{171} = 1 \frac{56}{171}$</p>	<p>[2] $\frac{5}{6} + \frac{62}{93}$</p> <p>$\frac{15 + 12}{18} = \frac{27}{18} = 1 \frac{9}{18}$</p> <p>$= 1 \frac{1}{2}$</p>	<p>[3] $\frac{12}{510} + \frac{5}{7}$</p> <p>$\frac{7 + 25}{35} = \frac{32}{35}$</p>
<p>[4] $\frac{3}{8} + \frac{9}{14}$</p> <p>$\frac{42 + 72}{112} = \frac{114}{112} = 1 \frac{2}{112}$</p> <p>$= 1 \frac{1}{56}$</p> <p>$\frac{114}{112} = 2 \frac{56}{112}$</p>	<p>[5] $\frac{1}{5} + \frac{21}{105}$</p> <p>$\frac{2 + 5}{25} = \frac{10}{25} = \frac{2}{5}$</p>	<p>[6] $\frac{8}{13} + \frac{1}{4}$</p> <p>$\frac{32 + 13}{52} = \frac{45}{52}$</p>
<p>[7] $\frac{5}{7} + \frac{63}{84}$</p> <p>$\frac{20 + 21}{28} = \frac{41}{28}$</p>	<p>[8] $\frac{6}{9} + \frac{105}{189}$</p> <p>$\frac{54 + 45}{81} = \frac{99}{81} = 1 \frac{18}{81}$</p> <p>$= 1 \frac{2}{9}$</p>	<p>[9] $\frac{9}{19} + \frac{93}{124}$</p> <p>$\frac{36 + 57}{76} = \frac{93}{76} = 1 \frac{17}{76}$</p> <p>$\frac{136}{93} - \frac{76}{17}$</p>
<p>[10] $\frac{9}{15} + \frac{91}{182}$</p> <p>$\frac{18 + 15}{30} = \frac{33}{30} = 1 \frac{3}{30}$</p> <p>$= 1 \frac{1}{10}$</p>	<p>[11] $\frac{178}{210} + \frac{8}{17}$</p> <p>$\frac{17 + 16}{34} = \frac{33}{34}$</p>	<p>[12] $\frac{1}{6} + \frac{62}{93}$</p> <p>$\frac{3 + 12}{18} = \frac{15}{18} = \frac{5}{6}$</p>