

# Fractions: Adding fractions with different denominators.

Date:

Name:

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

Look for opportunities to solve by finding the LCM (Lowest Common Multiple) to rename fractions.

[1] $\frac{3}{8} + \frac{7}{12}$	[2] $\frac{3}{5} + \frac{9}{20}$	[3] $\frac{5}{9} + \frac{11}{12}$
[4] $\frac{9}{16} + \frac{5}{12}$	[5] $\frac{11}{20} + \frac{13}{15}$	[6] $\frac{7}{8} + \frac{17}{24}$
[7] $\frac{2}{7} + \frac{16}{21}$	[8] $\frac{7}{12} + \frac{11}{18}$	[9] $\frac{5}{27} + \frac{7}{9}$
[10] $\frac{5}{12} + \frac{7}{16}$	[11] $\frac{5}{18} + \frac{1}{6}$	[12] $\frac{14}{15} + \frac{2}{5}$

# ANSWERS

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<p>[1] <math>\frac{3 \times 3}{8 \times 3} + \frac{7 \times 2}{12 \times 2}</math> LCM 24  <math>\frac{9}{24} + \frac{14}{24} = \frac{23}{24}</math></p>	<p>[2] <math>\frac{3 \times 4}{5 \times 4} + \frac{9}{20}</math> LCM 20  <math>\frac{12}{20} + \frac{9}{20} = \frac{21}{20} = 1\frac{1}{20}</math></p>	<p>[3] <math>\frac{5 \times 4}{9 \times 4} + \frac{11 \times 3}{12 \times 3}</math> LCM 36  <math>\frac{20}{36} + \frac{33}{36} = \frac{53}{36} = 1\frac{17}{36}</math></p>
<p>[4] <math>\frac{9 \times 3}{16 \times 3} + \frac{5 \times 4}{12 \times 4}</math> LCM 48  <math>\frac{27}{48} + \frac{20}{48} = \frac{47}{48}</math></p>	<p>[5] <math>\frac{11 \times 3}{20 \times 3} + \frac{13 \times 4}{15 \times 4}</math> LCM 60  <math>\frac{33}{60} + \frac{52}{60} = \frac{85}{60} = 1\frac{15}{60} = 1\frac{1}{4}</math></p>	<p>[6] <math>\frac{7 \times 3}{8 \times 3} + \frac{17}{24}</math> LCM 24  <math>\frac{21}{24} + \frac{17}{24} = \frac{38}{24} = 1\frac{14}{24} = 1\frac{7}{12}</math></p>
<p>[7] <math>\frac{2 \times 3}{7 \times 3} + \frac{16}{21}</math> LCM 21  <math>\frac{6}{21} + \frac{16}{21} = \frac{22}{21} = 1\frac{1}{21}</math></p>	<p>[8] <math>\frac{7 \times 3}{12 \times 3} + \frac{11 \times 2}{18 \times 2}</math> LCM 36  <math>\frac{21}{36} + \frac{22}{36} = \frac{43}{36} = 1\frac{7}{36}</math></p>	<p>[9] <math>\frac{5}{27} + \frac{7 \times 3}{9 \times 3}</math> LCM 27  <math>\frac{5}{27} + \frac{21}{27} = \frac{26}{27}</math></p>
<p>[10] <math>\frac{5 \times 4}{12 \times 4} + \frac{7 \times 3}{16 \times 3}</math> LCM 48  <math>\frac{20}{48} + \frac{21}{48} = \frac{41}{48}</math></p>	<p>[11] <math>\frac{5}{18} + \frac{1 \times 5}{6 \times 3}</math> LCM 18  <math>\frac{5}{18} + \frac{3}{18} = \frac{8}{18} = \frac{4}{9}</math></p>	<p>[12] <math>\frac{14}{15} + \frac{2 \times 3}{5 \times 3}</math> LCM 15  <math>\frac{14}{15} + \frac{6}{15} = \frac{20}{15} = 1\frac{5}{15} = 1\frac{1}{3}</math></p>