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

ANSWERS

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

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[1] $\frac{7}{8} - \frac{3}{12}$ ÷8? 12, (24) ✓

$\frac{21}{24} - \frac{6}{24} = \boxed{\frac{15}{24}}$

[2] $\frac{3}{5} - \frac{9}{20}$ ÷5? (20) ✓

$\frac{12}{20} - \frac{9}{20} = \boxed{\frac{3}{20}}$

[3] $\frac{8}{9} - \frac{9}{12}$ ÷9? ✓ 12, 24, (36)

$\frac{32}{36} - \frac{27}{36} = \boxed{\frac{5}{36}}$

[4] $\frac{9}{16} - \frac{3}{12}$ ÷12? 16, 32, (48) ✓

$\frac{27}{48} - \frac{12}{48} = \frac{15 \div 3}{48 \div 3} = \boxed{\frac{5}{16}}$

[5] $\frac{15}{20} - \frac{9}{15}$ ÷15? ✓ 20, 40, (60)

$\frac{45}{60} - \frac{36}{60} = \frac{9 \div 3}{60 \div 3} = \boxed{\frac{3}{20}}$

[6] $\frac{7}{8} - \frac{17}{24}$ ÷8? (24) ✓

$\frac{21}{24} - \frac{17}{24} = \frac{4 \div 4}{24 \div 4} = \boxed{\frac{1}{6}}$

[7] $\frac{6}{7} - \frac{16}{21}$ ÷7? (21) ✓

$\frac{18}{21} - \frac{16}{21} = \boxed{\frac{2}{21}}$

[8] $\frac{7}{12} - \frac{7}{18}$ ÷12? 18, (36) ✓

$\frac{21}{36} - \frac{14}{36} = \boxed{\frac{7}{36}}$

[9] $\frac{5}{27} - \frac{1}{9}$ ÷9? (27) ✓

$\frac{5}{27} - \frac{3}{27} = \boxed{\frac{2}{27}}$

[10] $\frac{10}{12} - \frac{4}{9}$ ÷9? 12, 24, (36) ✓

$\frac{30}{36} - \frac{16}{36} = \frac{14 \div 2}{36 \div 2} = \boxed{\frac{7}{18}}$

[11] $\frac{5}{18} - \frac{1}{6}$ ÷6? (18) ✓

$\frac{5}{18} - \frac{3}{18} = \frac{2 \div 2}{18 \div 2} = \boxed{\frac{1}{9}}$

[12] $\frac{14}{15} - \frac{2}{5}$ ÷5? (15) ✓

$\frac{14}{15} - \frac{6}{15} = \boxed{\frac{8}{15}}$