

Adding and Subtracting Fractions with Different Denominators

$$\frac{2}{3} + \frac{5}{6} + \frac{3}{4} = \frac{27}{12}$$

Convert the fractions so that they have the same denominator by finding a common multiple of the denominators. Then, add or subtract the numerators.

1)

$$\frac{3}{8} + \frac{3}{4} + \frac{4}{6} = \frac{\square}{24}$$

2)

$$\frac{1}{3} + \frac{2}{4} + \frac{4}{6}$$

$$\frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$$

3)

$$\frac{1}{5} + \frac{3}{4} + \frac{7}{10}$$

$$\frac{\square}{20} + \frac{\square}{20} + \frac{\square}{20} = \frac{\square}{20}$$

4)

$$\frac{3}{6} - \frac{1}{10}$$

$$\frac{\square}{30} - \frac{\square}{30} = \frac{\square}{30}$$

5)

$$\frac{4}{5} - \frac{1}{3}$$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

Can you find a common multiple of 5 and 3 to use as the denominator?



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$$\frac{2}{3} + \frac{5}{6} + \frac{3}{4} = \frac{27}{12}$$

Diagram illustrating the conversion of fractions to a common denominator of 12:

- $\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$
- $\frac{5}{6} \times \frac{2}{2} = \frac{10}{12}$
- $\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$

Convert the fractions so that they have the same denominator by finding a common multiple of the denominators. Then, add or subtract the numerators.

1)

$$\frac{3}{5} + \frac{5}{6} + \frac{1}{3} = \frac{\square}{30}$$

Diagram illustrating the conversion of fractions to a common denominator of 30:

- $\frac{3}{5} \times \square = \frac{\square}{30}$
- $\frac{5}{6} \times \square = \frac{\square}{30}$
- $\frac{1}{3} \times \square = \frac{\square}{30}$

2) $\frac{5}{6} - \frac{1}{9}$

$$\frac{\square}{18} + \frac{\square}{18} = \frac{\square}{18}$$

3) $\frac{7}{8} + \frac{11}{12} + \frac{2}{4}$

$$\frac{\square}{24} + \frac{\square}{24} + \frac{\square}{24} = \frac{\square}{24}$$

4) $\frac{4}{8} - \frac{1}{7}$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

5) $\frac{4}{9} + \frac{1}{6} + \frac{3}{4}$

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$



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$$\frac{2}{3} + \frac{5}{6} + \frac{3}{4} = \frac{27}{12}$$

Convert the fractions so that they have the same denominator by finding a common multiple of the denominators. Then, add or subtract the numerators.

1) $\frac{3}{8} - \frac{1}{5}$

$$\frac{\square}{40} - \frac{\square}{40} = \frac{\square}{40}$$

2) $\frac{7}{9} + \frac{4}{5} + \frac{2}{3}$

$$\frac{\square}{45} + \frac{\square}{45} + \frac{\square}{45} = \frac{\square}{45}$$

3) $\frac{15}{16} - \frac{7}{12}$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

4) $\frac{6}{18} + \frac{11}{12} + \frac{4}{9}$

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

5) $\frac{5}{8} + \frac{7}{11} + \frac{3}{4}$

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

6) $\frac{13}{16} - \frac{6}{10}$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$



Adding and Subtracting Fractions with Different Denominators

Answers

1) $\frac{3}{8} + \frac{3}{4} + \frac{4}{6} = \frac{43}{24}$

$\frac{3}{8} \times \frac{3}{3} = \frac{9}{24}$

$\frac{3}{4} \times \frac{6}{6} = \frac{18}{24}$

$\frac{4}{6} \times \frac{4}{4} = \frac{16}{24}$

$\frac{9}{24} + \frac{18}{24} + \frac{16}{24} = \frac{43}{24}$

2) $\frac{4}{12} + \frac{6}{12} + \frac{8}{12} = \frac{18}{12}$

3) $\frac{4}{20} + \frac{15}{20} + \frac{14}{20} = \frac{33}{20}$

4) $\frac{15}{30} - \frac{3}{30} = \frac{12}{30}$

5) $\frac{12}{15} - \frac{5}{15} = \frac{7}{15}$



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Adding and Subtracting Fractions with Different Denominators

Answers

1) $\frac{3}{5} + \frac{5}{6} + \frac{1}{3} = \frac{53}{30}$

$\frac{3}{5} \times \frac{6}{6} = \frac{18}{30}$

$\frac{5}{6} \times \frac{5}{5} = \frac{25}{30}$

$\frac{1}{3} \times \frac{10}{10} = \frac{10}{30}$

$\frac{18}{30} + \frac{25}{30} + \frac{10}{30} = \frac{53}{30}$

2) $\frac{15}{18} - \frac{2}{18} = \frac{13}{18}$

3) $\frac{21}{24} + \frac{22}{24} + \frac{12}{24} = \frac{55}{24}$

4) $\frac{28}{56} - \frac{8}{56} = \frac{20}{56}$

5) $\frac{16}{36} + \frac{6}{36} + \frac{27}{36} = \frac{39}{36}$



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Adding and Subtracting Fractions with Different Denominators

Answers

$$1) \frac{15}{40} + \frac{8}{40} = \frac{7}{40}$$

$$2) \frac{35}{45} + \frac{36}{45} + \frac{30}{45} = \frac{101}{45}$$

$$3) \frac{45}{48} - \frac{48}{48} = \frac{17}{48}$$

$$4) \frac{12}{36} + \frac{33}{36} + \frac{16}{36} = \frac{16}{36}$$

$$5) \frac{55}{88} + \frac{56}{88} + \frac{66}{88} = \frac{177}{88}$$

$$6) \frac{65}{80} + \frac{48}{80} = \frac{17}{80}$$

