

Name: Class:

Add and subtract fractions with unlike denominators



Add or subtract the following fractions.

a.

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

Multiples of 4: 4, 8, 12, 16, 20...

Multiples of 5: 5, 10, 15, 20, 25...

The LCM of 4 and 5 is 20

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20} \text{ and } \frac{1 \times 4}{5 \times 4} = \frac{4}{20}$$

$$\frac{15}{20} + \frac{4}{20} = \frac{15 + 4}{20} = \frac{19}{20}$$

Therefore, $\frac{3}{4} + \frac{1}{5} = \frac{19}{20}$

b.

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

Add the following fractions and write the correct answer.

c. $\frac{5}{12} + \frac{1}{3} = \frac{9}{12}$

$$\frac{3}{5} + \frac{6}{10} =$$

$$\frac{11}{20} + \frac{7}{8} =$$

d. $\frac{6}{10} + \frac{17}{20} =$

$$\frac{17}{20} + \frac{22}{25} =$$

$$\frac{13}{18} + \frac{1}{27} =$$

Subtract the following fractions and write the correct answer.

e. $\frac{2}{3} - \frac{4}{7} =$

$$\frac{6}{9} - \frac{3}{5} =$$

$$\frac{7}{9} - \frac{8}{15} =$$

f. $\frac{3}{4} - \frac{5}{9} =$

$$\frac{2}{3} - \frac{7}{11} =$$

$$\frac{4}{5} - \frac{1}{10} =$$

Name: Class:

Add and subtract fractions with unlike denominators



Add or subtract the following fractions.

a.

$\frac{3}{4} + \frac{1}{5}$	Multiples of 4: 4, 8, 12, 16, 20...	$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}$ and $\frac{1 \times 4}{5 \times 4} = \frac{4}{20}$
	Multiples of 5: 5, 10, 15, 20, 25...	
	The LCM of 4 and 5 is 20	

$$\frac{15}{20} + \frac{4}{20} = \frac{15 + 4}{20} = \frac{19}{20}$$

Therefore, $\frac{3}{4} + \frac{1}{5} = \frac{19}{20}$

b.

$\frac{3}{4} - \frac{1}{5}$	Multiples of 4: 4, 8, 12, 16, 20...	$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}$ and $\frac{1 \times 4}{5 \times 4} = \frac{4}{20}$
	Multiples of 5: 5, 10, 15, 20, 25...	
	The LCM of 4 and 5 is 20	

$$\frac{15}{20} - \frac{4}{20} = \frac{15 - 4}{20} = \frac{11}{20}$$

Therefore, $\frac{3}{4} - \frac{1}{5} = \frac{11}{20}$

Add the following fractions and write the correct answer.

c. $\frac{5}{12} + \frac{1}{3} = \frac{9}{12}$ $\frac{3}{5} + \frac{6}{10} = \frac{6}{5}$ $\frac{11}{20} + \frac{7}{8} = \frac{57}{40}$

d. $\frac{6}{10} + \frac{17}{20} = \frac{29}{20}$ $\frac{17}{20} + \frac{22}{25} = \frac{173}{100}$ $\frac{13}{18} + \frac{1}{27} = \frac{41}{54}$

Subtract the following fractions and write the correct answer.

e. $\frac{2}{3} - \frac{4}{7} = \frac{2}{21}$ $\frac{6}{9} - \frac{3}{5} = \frac{1}{15}$ $\frac{7}{9} - \frac{8}{15} = \frac{11}{45}$

f. $\frac{3}{4} - \frac{5}{9} = \frac{7}{36}$ $\frac{2}{3} - \frac{7}{11} = \frac{1}{33}$ $\frac{4}{5} - \frac{1}{10} = \frac{7}{10}$