

Name: Class:

Add and subtract fractions with denominators of 10, 100 and 1,000

Add or subtract the following fractions.

a. $\frac{4}{100} + \frac{5}{10}$

d. $\frac{2}{1,000} + \frac{7}{100}$

b. $\frac{12}{1,000} + \frac{1}{10}$

e. $\frac{60}{100} - \frac{3}{10}$

c. $\frac{7}{100} - \frac{12}{1,000}$

f. $\frac{7}{10} - \frac{625}{1,000}$



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a. $\frac{4}{100} + \frac{5}{10}$

Let's first of all find the LCM, then evaluate.

$$\frac{\frac{4}{100} + \frac{5}{10}}{\frac{4}{100} + \frac{50}{100}} = \frac{54}{100}$$

Now, let's simplify.

$$\frac{54}{100} = \frac{27 \times 2}{50 \times 2} = \frac{27}{50}$$

So, $\frac{4}{100} + \frac{5}{10} = \frac{27}{50}$

d. $\frac{2}{1,000} + \frac{7}{100}$

Let's first of all find the LCM, then evaluate.

$$\frac{\frac{2}{1,000} + \frac{7}{100}}{\frac{2}{1,000} + \frac{70}{1,000}} = \frac{72}{1,000}$$

Now, let's simplify.

$$\frac{72}{1,000} = \frac{9 \times 8}{125 \times 8} = \frac{9}{125}$$

So, $\frac{2}{1,000} + \frac{7}{100} = \frac{9}{125}$

b. $\frac{12}{1,000} + \frac{1}{10}$

Let's first of all find the LCM, then evaluate.

$$\frac{\frac{12}{1,000} + \frac{1}{10}}{\frac{12}{1,000} + \frac{100}{1,000}} = \frac{112}{1,000}$$

Now, let's simplify.

$$\frac{112}{1,000} = \frac{14 \times 8}{125 \times 8} = \frac{14}{125}$$

So, $\frac{12}{1,000} + \frac{1}{10} = \frac{14}{125}$

e. $\frac{60}{100} - \frac{3}{10}$

Let's first of all find the LCM, then evaluate.

$$\frac{\frac{60}{100} - \frac{3}{10}}{\frac{60}{100} - \frac{30}{100}} = \frac{30}{100}$$

Now, let's simplify.

$$\frac{30}{100} = \frac{10 \times 3}{10 \times 10} = \frac{3}{10}$$

So, $\frac{60}{100} - \frac{3}{10} = \frac{3}{10}$

c. $\frac{7}{100} - \frac{12}{1,000}$

$$\frac{70}{1,000} - \frac{12}{1,000} = \frac{58}{1,000} = \frac{29 \times 2}{500 \times 2} = \frac{29}{500}$$

So, $\frac{7}{100} - \frac{12}{1,000} = \frac{29}{500}$

f. $\frac{7}{10} - \frac{625}{1,000}$

$$\frac{700}{1,000} - \frac{625}{1,000} = \frac{75}{1,000} = \frac{3 \times 25}{40 \times 25} = \frac{3}{40}$$

So, $\frac{7}{10} - \frac{625}{1,000} = \frac{3}{40}$

