



## Adding and Subtracting Fractions with Unlike Denominators

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

### Part A: Multiple Choice

Circle the best answer for each question.

1. What is  $\frac{5}{6} + \frac{3}{8} - \frac{1}{4}$  expressed in simplest form?

- A)  $\frac{23}{24}$   
 B)  $\frac{7}{10}$   
 C)  $\frac{19}{24}$   
 D)  $\frac{11}{12}$

2. Maria ran  $\frac{3}{4} + \frac{5}{6}$  mi. Which LCD conversion is correct?

- A)  $\frac{9}{12} + \frac{10}{12}$   
 B)  $\frac{3}{10} + \frac{5}{10}$   
 C)  $\frac{8}{12} + \frac{10}{12}$   
 D)  $\frac{6}{8} + \frac{5}{8}$

3. Which step is WRONG?  $\frac{2}{3} + \frac{4}{9} \rightarrow \text{LCD}=9 \rightarrow \frac{6}{9} + \frac{4}{9} \rightarrow \frac{10}{9} \rightarrow 1\frac{1}{9}$

- A) LCD=9 is wrong  
 B)  $\frac{6}{9}$  conversion is wrong  
 C)  $\frac{10}{9}$  is wrong  
 D) No step is wrong

4. To subtract  $\frac{7}{12} - \frac{2}{9}$ , you use LCD=36. What are the renamed fractions?

- A)  $\frac{21}{36}$  and  $\frac{8}{36}$   
 B)  $\frac{14}{36}$  and  $\frac{6}{36}$   
 C)  $\frac{7}{36}$  and  $\frac{2}{36}$   
 D)  $\frac{28}{36}$  and  $\frac{8}{36}$

### Part B: Fill in the Blank

Write the correct answer on each line.

1.  $\frac{2}{3} + \frac{5}{12} + \frac{1}{4} = \frac{8}{12} + \frac{5}{12} + \frac{3}{12} =$  \_\_\_\_\_ in simplest form.

2. The LCD of 5, 6, and 10 is \_\_\_\_\_.

3.  $\frac{7}{8} - \frac{1}{3} = \frac{21}{24} - \frac{8}{24} =$  \_\_\_\_\_ in simplest form.

4. If you add  $\frac{4}{9} + \frac{2}{3}$ , the sum is \_\_\_\_\_ as a mixed number.

5.  $\frac{11}{15} - \frac{2}{5} = \frac{11}{15} - \frac{6}{15} =$  \_\_\_\_\_ in simplest form.

**Answer Key · Adding and Subtracting Fractions with Unlike Denominators · Grade: Grade 5**

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**Part A: Multiple Choice**

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Circle the best answer for each question.

1. What is  $\frac{5}{6} + \frac{3}{8} - \frac{1}{4}$  expressed in simplest form?

- A)  $\frac{23}{24}$
- B)  $\frac{7}{10}$
- C)  $\frac{19}{24}$
- D)  $\frac{11}{12}$

2. Maria ran  $\frac{3}{4} + \frac{5}{6}$  mi. Which LCD conversion is correct?

- A)  $\frac{9}{12} + \frac{10}{12}$
- B)  $\frac{3}{10} + \frac{5}{10}$
- C)  $\frac{8}{12} + \frac{10}{12}$
- D)  $\frac{6}{8} + \frac{5}{8}$

3. Which step is WRONG?  $\frac{2}{3} + \frac{4}{9} \rightarrow \text{LCD}=9 \rightarrow \frac{6}{9} + \frac{4}{9} \rightarrow \frac{10}{9} \rightarrow 1\frac{1}{9}$

- A) LCD=9 is wrong
- B)  $\frac{6}{9}$  conversion is wrong
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- D) No step is wrong

4. To subtract  $\frac{7}{12} - \frac{2}{9}$ , you use LCD=36. What are the renamed fractions?

- A)  $\frac{21}{36}$  and  $\frac{8}{36}$
- B)  $\frac{14}{36}$  and  $\frac{6}{36}$
- C)  $\frac{7}{36}$  and  $\frac{2}{36}$
- D)  $\frac{28}{36}$  and  $\frac{8}{36}$

**Part B: Fill in the Blank**

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Write the correct answer on each line.

1.  $\frac{2}{3} + \frac{5}{12} + \frac{1}{4} = \frac{8}{12} + \frac{5}{12} + \frac{3}{12} = \underline{1\frac{1}{3}}$  in simplest form.

2. The LCD of 5, 6, and 10 is 30.

3.  $\frac{7}{8} - \frac{1}{3} = \frac{21}{24} - \frac{8}{24} = \underline{\frac{13}{24}}$  in simplest form.

4. If you add  $\frac{4}{9} + \frac{2}{3}$ , the sum is  $1\frac{1}{9}$  as a mixed number.

5.  $\frac{11}{15} - \frac{2}{5} = \frac{11}{15} - \frac{6}{15} = \underline{\frac{1}{3}}$  in simplest form.