



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 $3\frac{2}{3} + 2\frac{5}{8}$ expressed as a mixed number in simplest form?

- A) $6\frac{7}{24}$
- B) $5\frac{31}{24}$
- C) $5\frac{7}{11}$
- D) $6\frac{1}{3}$

2. A student wrote: $4\frac{1}{5} - 1\frac{3}{4} = 3\frac{4}{20} - 1\frac{15}{20} = 2\frac{9}{20}$. Which part has an error?

- A) The LCD should be 9, not 20
- B) $\frac{4}{20}$ should be regrouped as $\frac{24}{20}$ before subtracting
- C) $\frac{15}{20}$ is the wrong conversion for $\frac{3}{4}$
- D) No step has an error

3. What is $\frac{7}{9} + \frac{5}{12}$ expressed in simplest form?

- A) $\frac{43}{36}$
- B) $1\frac{7}{36}$
- C) $\frac{12}{21}$
- D) $\frac{4}{3}$

4. To find $6\frac{1}{6} - 4\frac{7}{10}$, what is the LCD and the regrouped form of $6\frac{1}{6}$?

- A) LCD = 30, regroup as $5\frac{35}{30}$
- B) LCD = 60, regroup as $5\frac{70}{60}$
- C) LCD = 30, regroup as $6\frac{5}{30}$
- D) LCD = 16, regroup as $5\frac{17}{16}$

Part B: Fill in the Blank

Write the correct answer on each line.

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

2. $9\frac{1}{3} - 4\frac{5}{6} = 8\frac{8}{6} - 4\frac{5}{6} =$ _____ in simplest form.

3. The LCD of 4, 5, and 10 is _____.

4. $\frac{3}{4} + \frac{2}{5} - \frac{1}{10} = \frac{15}{20} + \frac{8}{20} - \frac{2}{20} =$ _____ as a mixed number.

5. $10\frac{1}{8} - 6\frac{3}{5} = 10\frac{5}{40} - 6\frac{24}{40} =$ _____ in simplest form.

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

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- C) LCD = 30, regroup as $6\frac{5}{30}$
- D) LCD = 16, regroup as $5\frac{17}{16}$

Part B: Fill in the Blank

Write the correct answer on each line.

1. $5\frac{1}{4} + 3\frac{2}{3} = 5\frac{3}{12} + 3\frac{8}{12} = \underline{8\frac{11}{12}}$ in simplest form.

2. $9\frac{1}{3} - 4\frac{5}{6} = 8\frac{8}{6} - 4\frac{5}{6} = \underline{4\frac{1}{2}}$ in simplest form.

3. The LCD of 4, 5, and 10 is 20.

4. $\frac{3}{4} + \frac{2}{5} - \frac{1}{10} = \frac{15}{20} + \frac{8}{20} - \frac{2}{20} = \underline{1\frac{1}{20}}$ as a mixed number.

5. $10\frac{1}{8} - 6\frac{3}{5} = 10\frac{5}{40} - 6\frac{24}{40} = \underline{3\frac{21}{40}}$ in simplest form.