ALBERT

Name _____ Date _____

Adding and Subtracting Fractions with Unlike Denominators Worksheet

Grade 5 · Common Core 5.NF.A.1

> Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.)

Practice

Builds the skill step by step.

1. $\frac{1}{2} + \frac{1}{4} = ?$

2. $\frac{2}{3} + \frac{1}{6} = ?$

3. $\frac{3}{4} - \frac{1}{3} = ?$

4. Which pair shows $\frac{1}{3}$ and $\frac{1}{4}$ rewritten with a common denominator?

   A. $\frac{3}{12}$ and $\frac{4}{12}$

   B. $\frac{4}{12}$ and $\frac{3}{12}$

   C. $\frac{4}{7}$ and $\frac{3}{7}$

   D. $\frac{1}{12}$ and $\frac{1}{12}$

5. $\frac{2}{5} + \frac{1}{2} = ?$

6. $\frac{5}{6} - \frac{1}{2} = ?$ Write your answer in simplest form.

7. To add $\frac{1}{4} + \frac{1}{6}$, which number can be used as a common denominator?

   A. 4

   B. 6

   C. 10

   D. 12

8. $\frac{7}{8} - \frac{1}{4} = ?$

9. $\frac{1}{3} + \frac{1}{2} + \frac{1}{6} = ?$

10. Rewrite $\frac{3}{5}$ and $\frac{1}{4}$ as equivalent fractions with a denominator of 20. Write $\frac{3}{5}$ first.

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On Level

Grade-level practice.

1. $\frac{3}{4} + \frac{5}{6} = ?$ Write your answer as a mixed number.

2. $2\frac{1}{3} + 1\frac{1}{2} = ?$

3. $4\frac{3}{4} - 2\frac{1}{3} = ?$

4. $\frac{5}{4} - \frac{2}{3} = ?$

5. $3\frac{1}{5} - 1\frac{1}{2} = ?$ Write your answer as a mixed number.

6. Which fraction is equal to $\frac{3}{5} + \frac{3}{4}$?

   A. $\frac{6}{9}$

   B. $\frac{6}{20}$

   C. $\frac{27}{20}$

   D. $\frac{15}{20}$

7. $\frac{7}{10} - \frac{2}{5} = ?$

8. $1\frac{5}{6} + 2\frac{3}{4} = ?$ Write your answer as a mixed number.

9. $5 - 2\frac{3}{8} = ?$

10. Lena wrote $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. What is the correct sum?

    A. $\frac{5}{6}$

    B. $\frac{2}{6}$

    C. $\frac{1}{6}$

    D. $\frac{2}{5}$

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Challenge

Multi-step and word problems that stretch it.

1. $\frac{2}{3} + \frac{1}{4} - \frac{1}{6} = ?$ Write your answer in simplest form.

2. $3\frac{2}{5} - 1\frac{3}{4} = ?$ Write your answer as a mixed number.

3. $\frac{1}{4}$ plus what fraction equals $\frac{5}{6}$?

4. $1\frac{1}{2} + 2\frac{2}{3} + 3\frac{3}{4} = ?$ Write your answer as a mixed number.

5. Which expression has the greatest value?

   A. $\frac{1}{2} + \frac{1}{3}$

   B. $\frac{3}{4} - \frac{1}{8}$

   C. $\frac{2}{5} + \frac{1}{2}$

   D. $\frac{1}{3} + \frac{1}{4}$

6. Marcus wrote $\frac{5}{8} - \frac{1}{4} = \frac{4}{4}$. Find the correct difference.

7. A fraction with a denominator of 4, plus $\frac{1}{3}$, equals $\frac{13}{12}$. What is the fraction?

8. $6\frac{1}{4} - 2\frac{5}{6} = ?$ Write your answer as a mixed number.

9. $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = ?$ Write your answer as a mixed number.

10. Which statement about $\frac{3}{4} + \frac{2}{5}$ is true?

    A. The sum is $\frac{6}{20}$.

    B. The sum is $\frac{5}{9}$.

    C. The sum is less than $\frac{3}{4}$.

    D. The sum is greater than 1.