

6-2

Name _____ Date _____

Estimating Sums and Differences

(pages 232–234)

When you add or subtract fractions or mixed numbers, round to estimate the sum or difference.

Estimate the Sum or Difference of Fractions	<ul style="list-style-type: none"> Round each fraction to the nearest half, and then add or subtract.
Estimate the Sum or Difference of Mixed Numbers	<ul style="list-style-type: none"> Round each mixed number to the nearest whole number, and then add or subtract.

EXAMPLES

A Estimate $\frac{13}{15} + \frac{9}{16}$.

$\frac{13}{15}$ rounds to 1 and $\frac{9}{16}$ rounds to $\frac{1}{2}$.

Add $1 + \frac{1}{2} = 1\frac{1}{2}$.

$\frac{13}{15} + \frac{9}{16}$ is about $1\frac{1}{2}$.

B Estimate $5\frac{7}{8} - 2\frac{2}{5}$.

$5\frac{7}{8}$ rounds to 6 and $2\frac{2}{5}$ rounds to 2.

Subtract $6 - 2 = 4$.

$5\frac{7}{8} - 2\frac{2}{5}$ is about 4.

Try These Together**Estimate.**

1. $\frac{7}{12} - \frac{1}{7}$

HINT: Round to the nearest half.

2. $5\frac{1}{8} + 9\frac{3}{5}$

*HINT: Round to the nearest whole number.***PRACTICE****Estimate.**

3. $\frac{2}{3} + \frac{4}{5}$

4. $3\frac{1}{4} - 2\frac{1}{8}$

5. $\frac{5}{8} + \frac{5}{6}$

6. $8\frac{3}{4} - 1\frac{3}{16}$

7. $\frac{1}{10} + \frac{4}{9}$

8. $\frac{2}{5} + \frac{3}{8}$

9. $1\frac{1}{7} - \frac{9}{10}$

10. $1\frac{3}{5} - \frac{1}{5}$

11. $\frac{7}{8} + \frac{2}{3}$

12. Estimate the sum $2\frac{1}{3} + \frac{5}{6} + 3\frac{3}{4} + 6\frac{1}{9}$.

13. Estimate the difference between $4\frac{1}{5}$ and $3\frac{2}{3}$.



14. Standardized Test Practice Estimate the following total.

$$\left(\frac{3}{4} + 2\frac{1}{8}\right) - \left(1\frac{1}{5} + 1\frac{3}{5}\right)$$

A 0**B** $\frac{1}{2}$ **C** 1**D** $1\frac{1}{2}$

Answers: Sample answers are given. 1. $\frac{2}{7}$ 2. 15 3. $1\frac{1}{2}$ 4. $1\frac{1}{2}$ 5. $1\frac{1}{2}$ 6. 8 7. $\frac{2}{1}$ 8. 1 9. 0 10. 2 11. $1\frac{1}{2}$ 12. 13 13. 0