

1-11 Homework

Name _____

Date _____

Use benchmarks of 0, $\frac{1}{2}$, and 1 to estimate the sum or difference.
Then find the actual sum or difference.

1 $\frac{2}{5} + \frac{4}{7}$

Estimate: _____

Sum: _____

2 $\frac{13}{20} - \frac{3}{10}$

Estimate: _____

Difference: _____

3 $\frac{13}{18} + \frac{1}{2}$

Estimate: _____

Sum: _____

Estimate the sum or difference by rounding each mixed number to the nearest whole number. Then find the actual sum or difference.

4 $3\frac{5}{8} - 1\frac{1}{2}$

Estimate: _____

Difference: _____

5 $6\frac{4}{9} + 5\frac{7}{12}$

Estimate: _____

Sum: _____

6 $7\frac{11}{18} - 4\frac{1}{15}$

Estimate: _____

Difference: _____

Tell whether the answer is reasonable or unreasonable.
Explain how you decided.

7 $2\frac{1}{5} + 5\frac{1}{3} = 7\frac{8}{15}$

8 $\frac{7}{8} - \frac{2}{11} = \frac{9}{19}$

9 $\frac{3}{8} + \frac{4}{5} = \frac{7}{40}$

10 $4\frac{1}{3} - 1\frac{5}{6} = 2\frac{1}{2}$

Solve.

11 Estimate the difference $8\frac{7}{12} - 4\frac{7}{8} - \frac{4}{10}$.
Explain how you found the answer.

Add or subtract.

$$\begin{array}{r} \textcircled{1} \quad 4 \\ - 3\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 5\frac{1}{2} \\ + 6\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 3\frac{1}{10} \\ - 1\frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad \frac{6}{7} \\ + \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad 10\frac{3}{8} \\ - 1\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 2\frac{13}{25} \\ + 3\frac{99}{100} \\ \hline \end{array}$$

Compare.

$$\textcircled{7} \quad \frac{5}{7} \bigcirc \frac{5}{9}$$

$$\textcircled{8} \quad \frac{99}{100} \bigcirc \frac{100}{101}$$

$$\textcircled{9} \quad \frac{7}{15} \bigcirc \frac{9}{20}$$

$$\textcircled{10} \quad \frac{6}{11} \bigcirc \frac{4}{9}$$

$$\textcircled{11} \quad \frac{1}{21} \bigcirc \frac{1}{22}$$

$$\textcircled{12} \quad \frac{5}{16} \bigcirc \frac{1}{4}$$

Solve.

Show your work.

- 13** On the first math test, Octavia answered 24 out of 30 questions correctly. On the second math test, she answered 19 out of 25 questions correctly. On which test did she answer the greater fraction of the questions correctly?
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- 14** **Stretch Your Thinking** Isidro is riding his bike 22 miles to the art museum. He rode $7\frac{1}{2}$ miles and then took a break. Since his break, he has ridden $5\frac{7}{10}$ mile. How much farther does he have to ride to get to the museum?
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