

Name: Answers

Date: _____

Homework – Add/Subt Fractions and Mixed Numbers

1) $\frac{2}{3} + \frac{1}{5}$

$$\begin{array}{r} \frac{2}{3} = \frac{10}{15} \\ + \frac{1}{5} = \frac{3}{15} \\ \hline \boxed{\frac{13}{15}} \end{array}$$

2) $\frac{3}{4} - \frac{3}{5}$

$$\begin{array}{r} \frac{3}{4} = \frac{15}{20} \\ - \frac{3}{5} = \frac{12}{20} \\ \hline \boxed{\frac{3}{20}} \end{array}$$

3) $3\frac{2}{3} + 4\frac{5}{9}$

$$\begin{array}{r} 3\frac{2}{3} = \frac{6}{9} \\ + 4\frac{5}{9} = \frac{5}{9} \\ \hline 7\frac{11}{9} = \boxed{8\frac{2}{9}} \end{array}$$

4) $7\frac{3}{4} + 2\frac{3}{8}$

$$\begin{array}{r} 7\frac{3}{4} = \frac{6}{8} \\ + 2\frac{3}{8} = \frac{3}{8} \\ \hline 9\frac{9}{8} = \boxed{10\frac{1}{8}} \end{array}$$

5) $9 - 2\frac{3}{5}$

$$\begin{array}{r} 9 = 8\frac{5}{5} \\ - 2\frac{3}{5} = 2\frac{3}{5} \\ \hline \boxed{6\frac{2}{5}} \end{array}$$

6) $5\frac{1}{7} - 2\frac{3}{7}$

$$\begin{array}{r} 5\frac{1}{7} = 4\frac{8}{7} \\ - 2\frac{3}{7} = 2\frac{3}{7} \\ \hline \boxed{2\frac{5}{7}} \end{array}$$

7) $3\frac{3}{4} + 2\frac{5}{8}$

$$\begin{array}{r} 3\frac{3}{4} = \frac{6}{8} \\ + 2\frac{5}{8} = \frac{5}{8} \\ \hline 5\frac{11}{8} = \boxed{6\frac{3}{8}} \end{array}$$

8) $5\frac{2}{3} + 3\frac{5}{6}$

$$\begin{array}{r} 5\frac{2}{3} = \frac{4}{6} \\ + 3\frac{5}{6} = \frac{5}{6} \\ \hline 8\frac{9}{6} = 9\frac{3}{6} = \boxed{9\frac{1}{2}} \end{array}$$

$$9) 6 - 2\frac{4}{7}$$

$$\begin{array}{r} 6 = 5\frac{7}{7} \\ - 2\frac{4}{7} \\ \hline 3\frac{3}{7} \end{array}$$

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

$$\begin{array}{r} 6\frac{3}{4} = 6\frac{3}{4} \\ - 2\frac{2}{4} \\ \hline 4\frac{1}{4} \end{array}$$

$$11) 7\frac{1}{3} - 2\frac{4}{5}$$

$$\begin{array}{r} 7\frac{1}{3} = 7\frac{5}{15} = 6\frac{20}{15} \\ - 2\frac{4}{5} = -2\frac{12}{15} \\ \hline 4\frac{8}{15} \end{array}$$

$$12) 9\frac{1}{3} - 3\frac{2}{5}$$

$$\begin{array}{r} 9\frac{1}{3} = 9\frac{5}{15} = 8\frac{20}{15} \\ - 3\frac{2}{5} = -3\frac{6}{15} \\ \hline 5\frac{14}{15} \end{array}$$

13) A cake recipe calls for $\frac{2}{3}$ teaspoon of salt, $1\frac{1}{2}$ (= $\frac{3}{2}$) teaspoons of baking powder, $\frac{3}{4}$ teaspoon of baking soda and $\frac{1}{8}$ teaspoon of cinnamon. How many total teaspoons of dry ingredients are used?

$$\begin{array}{r} \frac{2}{3} = \frac{16}{24} \\ + \frac{3}{2} = \frac{36}{24} \\ \frac{3}{4} = \frac{18}{24} \\ \frac{1}{8} = \frac{3}{24} \\ \hline \end{array}$$

$$\frac{73}{24} = 3\frac{1}{24} \text{ teaspoons}$$

14) Jefferson drove $23\frac{3}{4}$ miles and Hank drove $35\frac{2}{3}$ miles. How much farther did Hank drive than Jefferson?

$$\begin{array}{r} 35\frac{2}{3} = 35\frac{8}{12} = 34\frac{20}{12} \\ - 23\frac{3}{4} = -23\frac{9}{12} \\ \hline 11\frac{11}{12} \text{ miles} \end{array}$$

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bigger