

Addition

To add two or more fractional numbers, first rename the numbers so they have the least common denominator possible. Then proceed as you do with numbers that have a common denominator. If necessary, rename the sum so it is in simplest form.

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

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

$\frac{1}{2}$ is renamed as _____.

$\frac{1}{2}$ is renamed as _____.

$\frac{1}{3}$ is renamed as _____.

$$\frac{5}{6} + \frac{3}{6} = \frac{\quad}{6}$$

$$\frac{3}{6} + \frac{2}{6} = \underline{\quad}$$

$\frac{8}{6}$ is renamed as _____ or _____.

$$\frac{1}{2} + \frac{1}{3} = \underline{\quad}$$

$$\frac{5}{6} + \frac{1}{2} = \underline{\quad}$$

Express each sum in simplest form.

1.
$$\begin{array}{r} a \\ \frac{2}{5} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} b \\ \frac{1}{4} \\ + \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} c \\ \frac{2}{5} \\ + \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} d \\ \frac{1}{6} \\ + \frac{1}{2} \\ \hline \end{array}$$

2.
$$\begin{array}{r} \frac{1}{4} \\ + \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{2}{3} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{1}{2} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{8} \\ + \frac{1}{2} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{5}{6} \\ \frac{3}{5} \\ + \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{2}{3} \\ \frac{3}{4} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{8} \\ \frac{1}{2} \\ + \frac{3}{4} \\ \hline \end{array}$$

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

Check your answers. Record your score.

Perfect score: 12

My score: _____

Problems

Solve. Express each answer in simplest form.

1. Nadine ate $\frac{1}{3}$ of the pizza. Fred ate $\frac{1}{4}$ of it. How much of the pizza did they eat?

They ate _____ of the pizza.

2. In a contest Joy earned five ninths of a point. Denise earned two thirds of a point. How many points did the girls earn altogether?

They earned _____ points.

3. What is the combined thickness of a book $\frac{3}{8}$ inch thick and a book $\frac{3}{4}$ inch thick?

The combined thickness is _____ inches.

4. Before lunch Mattie read $\frac{3}{5}$ hour. After lunch she read $\frac{1}{4}$ hour. How long did she read altogether?

She read _____ hour.

5. Walter has a rock that weighs $\frac{5}{6}$ pound. Henry has a rock that weighs $\frac{3}{5}$ pound. What is the combined weight of these rocks?

The combined weight is _____ pounds.

6. Ben ate $\frac{1}{2}$ pound of candy, Tom ate $\frac{1}{3}$ pound, and Jim ate $\frac{1}{4}$ pound. How much candy did the boys eat in all?

They ate _____ pounds of candy.

7. Marjorie practices piano $\frac{5}{6}$ hour daily. Alfreda practices $\frac{2}{3}$ hour daily. Lucie practices $\frac{1}{2}$ hour daily. How many hours do these girls practice daily?

They practice _____ hours daily.

1.

2.

3.

4.

5.

6.

7.

Check your answers. Record your score.

Perfect score: 7 My score: _____

PRE-TEST—Addition

Express each sum in simplest form.

$$\begin{array}{r} a \\ 1. \quad \frac{1}{4} \\ + \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} b \\ \frac{1}{6} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} c \\ \frac{1}{4} \\ + \frac{3}{10} \\ \hline \end{array}$$

$$\begin{array}{r} d \\ \frac{5}{9} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 2\frac{5}{14} \\ + 3\frac{2}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 1\frac{5}{8} \\ + 4\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 5\frac{3}{4} \\ + \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{1}{12} \\ + 6\frac{3}{11} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{7}{8} \\ + \frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{12} \\ + \frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{10} \\ + \frac{11}{12} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{5} \\ + \frac{11}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{7}{9} \\ + 3\frac{11}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{7}{10} \\ + 1\frac{7}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 5\frac{7}{9} \\ + \frac{8}{27} \\ \hline \end{array}$$

$$\begin{array}{r} 4\frac{15}{24} \\ + 2\frac{7}{12} \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 3\frac{4}{5} \\ 1\frac{7}{10} \\ + 2\frac{3}{20} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{15} \\ 4\frac{7}{9} \\ + 5\frac{5}{6} \\ \hline \end{array}$$

Check your answers. Record your score.

Perfect score: 20

My score: _____