

Name _____

Score: _____

Adding Fractions

with the Unlike Denominator, Requires Simplifying

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

$$\frac{1}{3} = \frac{2}{6} \quad \frac{1}{6} = \frac{1}{6}$$

$$\frac{1}{3} = \frac{2}{6} \quad \frac{1}{6} = \frac{1}{6} \quad \text{same} \quad \frac{3}{6}$$

$$\frac{1}{3} = \frac{2}{6} \quad \frac{1}{6} = \frac{1}{6} \quad \frac{3}{6}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

n.
$$\begin{array}{r} \frac{6}{2} \\ + \frac{2}{6} \\ \hline \end{array}$$

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

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

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

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

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

t.
$$\begin{array}{r} \frac{2}{6} \\ + \frac{2}{6} \\ \hline \end{array}$$

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Adding Fractions **ANSWER KEY**

With the Unlike Denominator, Requires Simplifying

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

$$\frac{1}{3} = \frac{2}{6} \quad \frac{1}{6} = \frac{1}{6}$$

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

$$\frac{3}{6} = \frac{1}{2}$$

- a. $\frac{2}{6} = \frac{2}{6}$
 $\frac{1}{6} = \frac{1}{6}$
 $+ 1 = \frac{6}{6}$
 $\frac{8}{6} = \frac{4}{3}$
- b. $\frac{2}{3} = \frac{4}{6}$
 $\frac{1}{6} = \frac{1}{6}$
 $+ 2 = \frac{6}{6}$
 $\frac{7}{6}$
- c. $\frac{1}{1} = \frac{5}{5}$
 $\frac{1}{5} = \frac{1}{5}$
 $+ 5 = \frac{5}{5}$
 $\frac{6}{5}$
- d. $\frac{2}{1} = \frac{4}{2}$
 $\frac{4}{2} = \frac{4}{2}$
 $+ 2 = \frac{2}{2}$
 $\frac{8}{2} = \frac{4}{1}$
- e. $\frac{3}{1} = \frac{6}{2}$
 $\frac{2}{2} = \frac{2}{2}$
 $+ 2 = \frac{2}{2}$
 $\frac{8}{2} = \frac{4}{1}$
- f. $\frac{1}{1} = \frac{5}{5}$
 $\frac{2}{5} = \frac{2}{5}$
 $+ 5 = \frac{5}{5}$
 $\frac{7}{5}$
- g. $\frac{4}{2} = \frac{4}{2}$
 $\frac{2}{2} = \frac{4}{2}$
 $+ 1 = \frac{2}{2}$
 $\frac{8}{2} = \frac{4}{1}$
- h. $\frac{2}{2} = \frac{6}{6}$
 $\frac{4}{6} = \frac{8}{6}$
 $+ 3 = \frac{6}{6}$
 $\frac{14}{6} = \frac{7}{3}$
- i. $\frac{2}{4} = \frac{2}{4}$
 $\frac{2}{4} = \frac{4}{4}$
 $+ 2 = \frac{4}{4}$
 $\frac{6}{4} = \frac{3}{2}$
- j. $\frac{2}{4} = \frac{2}{4}$
 $\frac{1}{4} = \frac{2}{4}$
 $+ 2 = \frac{4}{4}$
 $\frac{4}{4} = \frac{1}{1}$
- k. $\frac{1}{4} = \frac{1}{4}$
 $\frac{2}{4} = \frac{2}{4}$
 $+ 2 = \frac{4}{4}$
 $\frac{3}{4}$
- l. $\frac{4}{1} = \frac{8}{2}$
 $\frac{2}{2} = \frac{2}{2}$
 $+ 2 = \frac{2}{2}$
 $\frac{10}{2} = \frac{5}{1}$
- m. $\frac{3}{3} = \frac{6}{6}$
 $\frac{6}{6} = \frac{18}{6}$
 $+ 2 = \frac{6}{6}$
 $\frac{24}{6} = \frac{4}{1}$
- n. $\frac{6}{2} = \frac{18}{6}$
 $\frac{2}{6} = \frac{2}{6}$
 $+ 6 = \frac{6}{6}$
 $\frac{20}{6} = \frac{10}{3}$
- o. $\frac{1}{2} = \frac{4}{8}$
 $\frac{1}{8} = \frac{1}{8}$
 $+ 8 = \frac{8}{8}$
 $\frac{5}{8}$
- p. $\frac{4}{1} = \frac{16}{4}$
 $\frac{2}{4} = \frac{8}{4}$
 $\frac{1}{4} = \frac{1}{4}$
 $+ 4 = \frac{4}{4}$
 $\frac{26}{4} = \frac{13}{2}$
- q. $\frac{4}{8} = \frac{4}{8}$
 $\frac{1}{8} = \frac{1}{8}$
 $\frac{1}{8} = \frac{1}{8}$
 $+ 2 = \frac{8}{8}$
 $\frac{9}{8}$
- r. $\frac{2}{2} = \frac{4}{4}$
 $\frac{1}{4} = \frac{1}{4}$
 $\frac{4}{4} = \frac{8}{4}$
 $+ 2 = \frac{4}{4}$
 $\frac{13}{4}$
- s. $\frac{1}{5} = \frac{1}{5}$
 $\frac{1}{5} = \frac{1}{5}$
 $\frac{2}{5} = \frac{10}{5}$
 $+ 1 = \frac{5}{5}$
 $\frac{12}{5}$
- t. $\frac{2}{6} = \frac{2}{6}$
 $\frac{2}{6} = \frac{2}{6}$
 $\frac{2}{6} = \frac{4}{6}$
 $+ 3 = \frac{6}{6}$
 $\frac{8}{6} = \frac{4}{3}$