

Name: _____

Date: _____

Learning Goal 2.1

I can add and subtract fractions.

Improper

versus

Mixed

Example Convert the following improper fractions to mixed fractions.

a. $\frac{5}{2} = 2\frac{1}{2}$

b. $\frac{67}{10} = 6\frac{7}{10}$

c. $\frac{55}{9} = 6\frac{1}{9}$

d. $\frac{21}{9} = 2\frac{1}{3}$

e. $\frac{22}{6} = 3\frac{2}{3}$

f. $\frac{27}{11} = 2\frac{5}{11}$

g. $\frac{27}{5} = 5\frac{2}{5}$

h. $\frac{47}{12} = 3\frac{11}{12}$

i. $\frac{21}{8} = 2\frac{5}{8}$

j. $\frac{72}{10} = 7\frac{1}{5}$

k. $\frac{13}{6} = 2\frac{1}{6}$

l. $\frac{15}{2} = 7\frac{1}{2}$

m. $\frac{41}{7} = 5\frac{6}{7}$

n. $\frac{17}{5} = 3\frac{2}{5}$

o. $\frac{11}{3} = 3\frac{2}{3}$

Example Convert the following mixed fractions to improper fractions.

a. $9\frac{2}{3} = \frac{29}{3}$

b. $2\frac{5}{9} = \frac{29}{9}$

c. $3\frac{1}{5} = \frac{16}{5}$

d. $9\frac{3}{5} = \frac{48}{5}$

e. $4\frac{7}{8} = \frac{39}{8}$

f. $9\frac{5}{12} = \frac{113}{12}$

g. $2\frac{4}{7} = \frac{18}{7}$

h. $9\frac{6}{11} = \frac{105}{11}$

i. $6\frac{2}{7} = \frac{44}{7}$

j. $9\frac{1}{4} = \frac{37}{4}$

k. $8\frac{3}{4} = \frac{35}{4}$

l. $4\frac{1}{2} = \frac{9}{2}$

m. $6\frac{7}{8} = \frac{55}{8}$

n. $2\frac{2}{3} = \frac{8}{3}$

o. $5\frac{5}{6} = \frac{35}{6}$

Example Reduce the following fractions to lowest terms.

a. $\frac{10}{25} = \frac{2}{5}$

b. $\frac{20}{24} = \frac{5}{6}$

c. $\frac{24}{36} = \frac{2}{3}$

d. $\frac{9}{33} = \frac{3}{11}$

e. $\frac{45}{99} = \frac{5}{11}$

f. $\frac{6}{21} = \frac{2}{7}$

g. $\frac{15}{30} = \frac{1}{2}$

h. $\frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$

i. $\frac{80}{24} = \frac{10}{3} = 3\frac{1}{3}$

j. $\frac{12}{8} = \frac{3}{2} = 1\frac{1}{2}$

k. $\frac{60}{6} = 10$

l. $\frac{18}{12} = \frac{3}{2} = 1\frac{1}{2}$

m. $\frac{10}{6} = \frac{5}{3} = 1\frac{2}{3}$

n. $\frac{14}{6} = \frac{7}{3} = 2\frac{1}{3}$

o. $\frac{32}{4} = 8$