

Name: Class:

Convert between improper fractions and mixed numbers

Convert the following improper fractions into mixed numbers.

$$\frac{13}{4}$$

$$\frac{47}{9}$$

$$\frac{31}{5}$$

$$\frac{17}{10}$$

$$\frac{39}{11}$$

$$\frac{49}{3}$$

Convert the following mixed numbers into improper fractions.

$$3 \frac{1}{4} =$$

$$7 \frac{9}{7} =$$

$$5 \frac{3}{7} =$$

$$5 \frac{1}{10} =$$

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Convert the following improper fractions into mixed numbers.

$$\frac{13}{4} \quad 4 \begin{array}{r} 3 \\ 13 \\ -12 \\ \hline 1 \end{array} \rightarrow 3R1$$

$$\boxed{\frac{13}{4} = 3\frac{1}{4}}$$

$$\frac{47}{9} \quad 9 \begin{array}{r} 5 \\ 47 \\ -45 \\ \hline 2 \end{array} \rightarrow 5R2$$

$$\boxed{\frac{47}{9} = 5\frac{2}{9}}$$

$$\frac{31}{5} \quad 5 \begin{array}{r} 6 \\ 31 \\ -30 \\ \hline 1 \end{array} \rightarrow 6R1$$

$$\boxed{\frac{31}{5} = 6\frac{1}{5}}$$

$$\frac{17}{10} \quad 10 \begin{array}{r} 1 \\ 17 \\ -10 \\ \hline 7 \end{array} \rightarrow 1R7$$

$$\boxed{\frac{17}{10} = 1\frac{7}{10}}$$

$$\frac{39}{11} \quad 11 \begin{array}{r} 3 \\ 39 \\ -33 \\ \hline 6 \end{array} \rightarrow 3R6$$

$$\boxed{\frac{39}{11} = 3\frac{6}{11}}$$

$$\frac{49}{3} \quad 3 \begin{array}{r} 16 \\ 49 \\ -48 \\ \hline 1 \end{array} \rightarrow 16R1$$

$$\boxed{\frac{49}{3} = 16\frac{1}{3}}$$

Convert the following mixed numbers into improper fractions.

$$3\frac{1}{4} = \frac{3 \times 4 + 1}{4} = \frac{13}{4}$$

$$\boxed{3\frac{1}{4} = \frac{13}{4}}$$

$$7\frac{9}{7} = \frac{7 \times 7 + 9}{7} = \frac{49 + 9}{7} = \frac{58}{7}$$

$$\boxed{7\frac{9}{7} = \frac{58}{7}}$$

$$5\frac{3}{7} = \frac{5 \times 7 + 3}{7} = \frac{35 + 3}{7} = \frac{38}{7}$$

$$\boxed{5\frac{3}{7} = \frac{38}{7}}$$

$$5\frac{1}{10} = \frac{5 \times 10 + 1}{10} = \frac{51}{10}$$

$$\boxed{5\frac{1}{10} = \frac{51}{10}}$$