Name: .... Class: ....

Convert between improper fractions and mixed numbers

Convert the following improper fractions into mixed numbers. (follow the example).

$\dfrac{13}{4}$

$\dfrac{47}{9}$

$\dfrac{31}{5}$

$\dfrac{17}{10}$

$\dfrac{39}{11}$

$\dfrac{49}{5}$

Convert the following mixed numbers into improper fractions. (follow the example).

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

$7\dfrac{9}{7} =$

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

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

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$\dfrac{13}{4}$

$4 \overline{\smash{\big)}\,13} \quad \overset{3}{} \rightarrow 3R1$
$\underline{-12}$
1

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

$\dfrac{47}{9}$

$9 \overline{\smash{\big)}\,47} \quad \overset{5}{} \rightarrow 5R2$
$\underline{-45}$
2

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

$\dfrac{31}{5}$

$5 \overline{\smash{\big)}\,31} \quad \overset{6}{} \rightarrow 6R1$
$\underline{-30}$
1

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

$\dfrac{17}{10}$

$10 \overline{\smash{\big)}\,17} \quad \overset{1}{} \rightarrow 1R7$
$\underline{-10}$
7

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

$\dfrac{39}{11}$

$11 \overline{\smash{\big)}\,39} \quad \overset{3}{} \rightarrow 3R6$
$\underline{-33}$
6

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

$\dfrac{49}{5}$

$5 \overline{\smash{\big)}\,49} \quad \overset{9}{} \rightarrow 9R4$
$\underline{-45}$
4

$\boxed{\dfrac{49}{5} = 9\dfrac{4}{5}}$

Convert the following mixed numbers into improper fractions. (follow the example).

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

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

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

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

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

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

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

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