5.6 Improper fractions and mixed Numbers

Proper fractions
Value is less than 1
The numerator is less than the denominator

Improper when the numerator is more than the denominator

$\frac{13}{12}$ $\frac{24}{5}$ $\frac{121}{120}$

Mixed Number
two parts
Whole number and proper fraction

$3\frac{1}{2}$ $7\frac{19}{29}$ $123\frac{1295}{1300}$

Mixed to improper

$1\frac{3}{8} = \frac{(8\times1)+3}{8} = \frac{59}{8}$

$12\frac{4}{7} = \frac{(7\times12)+4}{7} = \frac{88}{7}$

Improper to Mixed

$\frac{37}{4}$ $4\overline{)37}$ 9 r 1 $9\frac{1}{4}$

$\frac{36}{1}$

Quotient is the Whole number
Remainder is the numerator
Divisor is the denominator

$\frac{57}{3}$ 19.0 $19\frac{0}{3}$

$5\overline{)\frac{7}{5}}$ $5\overline{)\frac{7}{5}}$ $\frac{1}{2}$ r 2

$1\frac{2}{5}$

$6\frac{2}{5}$

Between

$4\frac{3}{5}$ 5

$7\frac{1}{2}$ $7\frac{3}{4}$

$7\frac{4}{8}$ $7\frac{6}{8}$ $7\frac{8}{16}$ $7\frac{12}{16}$

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