Learning Objective: To apply knowledge to convert between proper, improper and mixed numerals.

Converting from improper fractions to mixed numerals

Convert $\frac{11}{4}$ to a mixed numeral

Divide the denominator into the numerator

$$11 \div 4 = 2 \; remainder \; 3$$

$$\frac{11}{4} = 2\frac{3}{4}$$

Converting from mixed numerals to improper fractions

Convert $3\frac{1}{5}$ into an improper fraction

Multiply the whole number by the denominator and add the numerator

$$3 \times 5 = 15 + 1 = 16$$

$$\frac{16}{5}$$

Convert the following improper fractions to mixed numerals.

$\frac{27}{6}$	$\frac{32}{5}$	$\frac{68}{8}$	$\frac{35}{4}$

Answer the following questions.

Write an equivalent fraction:

$\frac{16}{24}$ =

Determine the HCF of 16 and 24

16:

24:

Simplest form =

Write an equivalent fraction:

$\frac{18}{36}$ =

Determine the HCF of 18 and 36

18:

36:

Simplest form =

Write an equivalent fraction:

$\frac{10}{26}$ =

Determine the HCF of 10 and 26

10:

26:

Simplest form =

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Converting from mixed numerals to improper fractions

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Convert the following improper fractions to mixed numerals.

$\frac{27}{6}$	$\frac{32}{5}$	$\frac{68}{8}$	$\frac{35}{4}$
$\frac{27}{6} = 4\frac{3}{6}$	$\frac{32}{5} = 6\frac{2}{5}$	$\frac{68}{8} = 8\frac{4}{8}$	$\frac{35}{4} = 8\frac{3}{4}$

Answer the following questions.

Write an equivalent fraction:

$\frac{16}{24}$ = (Answers will vary)

Determine the HCF of 16 and 24

16: 1, 2, 4, 8, 16

24: 1, 2, 3, 4, 6, 8, 12, 24

Divide the numerator and denominator by 8.

Simplest form = $\frac{2}{3}$

Write an equivalent fraction:

$\frac{18}{36}$ = (Answers will vary)

Determine the HCF of 18 and 36

18: 1, 2, 3, 6, 9, 18

36: 1, 2, 3, 4, 6, 9, 12, 18, 36

Divide the numerator and denominator by 18.

Simplest form = $\frac{1}{2}$

Write an equivalent fraction:

$\frac{10}{26}$ = (Answers will vary)

Determine the HCF of 10 and 26

10: 1, 2, 5, 10

26: 1, 2, 13, 26

Divide the numerator and denominator by 2.

Simplest form = $\frac{5}{13}$