

Simplify these fractions:

Oct. 1

$$\frac{8 \div 2}{26 \div 2} = \frac{4}{13} \checkmark$$

$$\frac{9 \div 9}{45 \div 9} = \frac{1}{5}$$

GCF

$$\begin{array}{l} 8 \\ 1 \times 8 \\ 2 \times 4 \end{array}$$

$$\begin{array}{l} 26 \\ 1 \times 26 \\ 2 \times 13 \end{array}$$

$$\begin{array}{l} 9 \\ 1 \times 9 \\ 3 \times 3 \end{array}$$

$$\begin{array}{l} 45 \\ 1 \times 45 \\ 3 \times 15 \\ 5 \times 9 \end{array}$$

## Converting Improper Fractions to Mixed Numbers

### 1. Steps to Convert Improper Fractions to Mixed Numbers:

- > Divide the numerator by the denominator to get the whole number part.
- > The remainder becomes the numerator of the fractional part, while the denominator stays the same.

Example: Convert  $\frac{17}{5}$

$$\begin{array}{r} 3 \text{ R } 2 \\ 5 \overline{) 17} \\ \underline{-15} \phantom{0} \\ 2 \end{array}$$

to a mixed number

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

# Practice together

Convert the following to mixed numbers

1)  $\frac{9}{4} = 2\frac{1}{4}$

$$\begin{array}{r} 2 \text{ R } 1 \\ 4 \overline{) 9} \\ \underline{-8} \\ 1 \end{array}$$

2)  $\frac{11}{3}$

3)  $\frac{22}{6}$

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

$$\begin{array}{r} 3 \text{ R } 2 \\ 3 \overline{) 11} \\ \underline{-9} \\ 2 \end{array}$$

$$\frac{22}{6} = 3\frac{4}{6}$$
$$\begin{array}{r} 3 \text{ R } 4 \\ 6 \overline{) 22} \\ \underline{-18} \\ 4 \end{array}$$

Practice on your own

$$\frac{10}{8} = 1 \frac{2}{8} = 1 \frac{1}{4}$$

Handwritten work for  $\frac{10}{8}$  in blue ink:

$$\begin{array}{r} 1R2 \\ 8 \overline{) 10} \\ \underline{- 8} \\ 2 \end{array}$$

$$\frac{21}{12} = 1 \frac{9}{12} = 1 \frac{3}{4}$$

Handwritten work for  $\frac{21}{12}$  in red ink:

$$\begin{array}{r} 1R9 \\ 12 \overline{) 21} \\ \underline{- 12} \\ 9 \end{array}$$

## Converting Mixed Numbers to Improper Fractions

### 1. Steps to Convert Mixed Numbers to Improper Fractions:

- > Multiply the whole number by the denominator.
- > Add this result to the numerator of the fraction.
- > The denominator stays the same.

Example: Convert  $2\frac{3}{4}$  to an improper fraction:

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

$$2 \times 4 = 8 + 3 = 11$$

## PRACTICE

Convert the following mixed numbers to improper fractions:

1.3 1

$\overline{4}$

2.4 2

$\overline{3}$

3.1 5

$\overline{7}$

Handwritten conversion of the mixed number  $3\frac{1}{4}$  to the improper fraction  $\frac{13}{4}$ . The process is shown with red annotations: a red '+' sign and a curved arrow indicate the addition of the whole number 3 to the numerator 1. A red 'x' and a curved arrow indicate the multiplication of the denominator 4 by the whole number 3. The final result is  $\frac{13}{4}$ .

Handwritten conversion of the mixed number  $1\frac{5}{7}$  to the improper fraction  $\frac{12}{7}$ . The process is shown with green annotations: a green '+' sign and a curved arrow indicate the addition of the whole number 1 to the numerator 5. A green 'x' and a curved arrow indicate the multiplication of the denominator 7 by the whole number 1. The final result is  $\frac{12}{7}$ .

Handwritten conversion of the mixed number  $4\frac{2}{3}$  to the improper fraction  $\frac{14}{3}$ . The process is shown with blue annotations: a blue '+' sign and a curved arrow indicate the addition of the whole number 4 to the numerator 2. A blue 'x' and a curved arrow indicate the multiplication of the denominator 3 by the whole number 4. The final result is  $\frac{14}{3}$ .

<https://www.youtube.com/watch?v=a9maEYcehyE>

# Homework

Worksheets 1 & 2

First 16

①	_____	_____	_____	_____
②	_____	_____	_____	_____
③	_____	_____	_____	_____
④	_____	_____	_____	_____



