

Simplifying fractions

To simplify a fraction you need to find the biggest number you can equally divide the top and bottom by.

E.G to simplify $\frac{5}{15}$ divide the top and the

$$\text{bottom by } 5 = \frac{1}{3} \quad \begin{array}{l} 5 \div 5 = 1 \\ 15 \div 5 = 3 \end{array}$$



FRACTIONS

$\frac{1}{5}$ **Proper Fraction**
The numerator is smaller than the denominator.

$\frac{6}{2}$ **ImProper Fraction**
The numerator is greater than the denominator.

$2\frac{1}{2}$ **Mixed fraction**
A whole number and a proper fraction together.

Improper fraction



$$\frac{15}{7} \rightarrow 7 \overline{)15}$$
$$7 \overline{)15} \rightarrow \textcircled{7} \overline{)15}$$
$$\begin{array}{r} 2 \\ \textcircled{7} \overline{)15} \\ \underline{-14} \\ \textcircled{1} \end{array}$$

Answer = $2\frac{1}{7}$ **Mixed number**

Let's practice

SIMPLIFY EACH FRACTION

$$\frac{4}{20} =$$

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

$$\frac{14}{21} =$$

$$\frac{9}{15} =$$

$$\frac{16}{24} =$$

$$\frac{18}{48} =$$

$$\frac{16}{44} =$$

$$\frac{9}{21} =$$

$$\frac{25}{30} =$$

$$\frac{8}{22} =$$

$$\frac{12}{30} =$$

$$\frac{5}{20} =$$

WRITE EACH FRACTION AS A MIXED NUMBER AND SIMPLIFY

$$\frac{6}{5}$$

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

$$\frac{7}{2}$$

$$\frac{11}{4}$$

$$\frac{15}{5}$$

$$\frac{20}{7}$$

$$\frac{53}{6}$$

$$\frac{42}{10}$$

$$\frac{81}{40}$$

$$\frac{36}{6}$$

$$\frac{15}{2}$$

$$\frac{30}{8}$$

$$\frac{21}{15}$$

$$\frac{110}{5}$$

$$\frac{192}{9}$$

$$\frac{325}{75}$$

$$\frac{300}{10}$$

$$\frac{46}{6}$$