## Maths- Fractions

## This lesson will be live on teams for your class at; 9am-5L 10am-5H 11am-5M

Learning objective; To convert improper to mixed number fractions.

Warm up-insert the correct numerator or denominator to make these fractions equivalent.
(a) $\frac{2}{3}=\frac{}{6}$
(b) $\frac{1}{5}=\frac{}{20}$
(c) $\frac{3}{4}=\frac{}{12}$
(d) $\frac{5}{7}=\frac{10}{}$
(e) $\overline{5}=\frac{15}{25}$
(f) $\quad \frac{4}{-}=\frac{12}{21}$
(g) $\frac{3}{10}=\frac{}{50}$
(h) $\frac{7}{8}=\frac{14}{}$

## What is a fraction?

A fraction is defined as;

- Part of a whole.
- A figure or set of items which has been partitioned equally.


They have numerators and denominators to determine how the whole of something (all of it) is being split equally and how much of it is being represented (coloured/added/used).

Just like converting from mixed number to improper fractions, we can follow a simple method to convert improper fractions into their mixed number equivalents.


1. Divide the numerator by the denominator.
2. Write down the whole number result.
3. Use the remainder as the new numerator over the original denominator.

Lets do some examples with Mr L

$$
\underset{\text { Improper }}{\text { Imper }}-\left(\frac{15}{7}-\right.\text { Numerator }
$$

Step 1: Divide the numerator with the denominator

$$
15 \div 7=2 R
$$

Step:2 Assemble the mixed fraction

$$
\frac{15}{7}=\frac{1}{7}
$$

$$
\frac{15}{7}=2 \frac{1}{7} \ldots=
$$

Fluency


$$
\begin{aligned}
& \text { 1) } \frac{5}{3}=1 \frac{7}{3} \text { 2) } \frac{7}{2}=3 \frac{13}{2} \text { 13) } \frac{13}{5}=2 \frac{1}{5} \text { 4) } \frac{8}{3}=2 \frac{7}{3} \\
& \text { 5) } \frac{7}{4}= \\
& \begin{array}{lll}
\text { 9) } \frac{16}{3}= & \text { 6) } \frac{11}{5}= & \text { 7) } \frac{13}{3}= \\
\text { 8) } \frac{11}{2}= \\
& \text { 10) } \frac{14}{4}= & \text { 11) } \frac{19}{5}=
\end{array}
\end{aligned}
$$

## Answers

1) $\frac{5}{3}=1 \frac{2}{3}$ 2) $\frac{7}{2}=3 \frac{1}{2}$ 3) $\frac{13}{5}=2 \frac{3}{5}$ 4) $\frac{8}{3}=2 \frac{2}{3}$
2) $\frac{7}{4}=1 \frac{3}{4}$ 6) $\frac{11}{5}=2 \frac{1}{5} \quad$ 7) $\frac{13}{3}=4 \frac{1}{3} \quad$ 8) $\frac{11}{2}=5 \frac{1}{2}$
3) $\frac{16}{3}=5 \frac{1}{3}$ 10) $\frac{14}{4}=3 \frac{2}{4}$ 11) $\frac{19}{5}=3 \frac{4}{5}$ 12) $\frac{17}{8}=2 \frac{1}{8}$

## Additional Reasoning

Remind yourself about adding fractions with the same denominator.
Can you solves these fraction additions?

If the answer is an improper fraction, use todays method to also show it as a mixed number.

1) $\frac{11}{3}+\frac{5}{3}=\frac{}{3}$
2) $\frac{7}{5}+\frac{4}{5}=\frac{}{5}$
3) $\frac{7}{6}+\frac{8}{6}=\frac{}{6}$
4) $\frac{11}{10}+\frac{22}{10}=\frac{}{10}$
5) $\frac{13}{5}+\frac{10}{5}=\frac{}{5}$
6) $\frac{5}{4}+\frac{10}{4}=\frac{}{4}$
7) $\frac{11}{7}+\frac{8}{7}=$
8) $\frac{11}{9}+\frac{15}{9}=$
9) $\frac{17}{10}+\frac{10}{10}=$
10) $\frac{17}{12}+\frac{25}{12}=$

## Answers

As a mixed number they are;

1) $51 / 3$
2) $21 / 5$
3) $23 / 6$
4) $33 / 10$
5) $43 / 5$
6) $3 \frac{3}{4}$
7) $25 / 7$
8) $28 / 9$
9) $27 / 10$
10) $33 / 12$

Plenary-complete the statements based on your knowledge of fractions.

- A fraction is......
- A denominator is.......
- A numerator is......
- A mixed number fraction is.........
- An improper fraction is $\qquad$

