## Day 2

Tues 30th ${ }^{\text {June }} /$ Fri $3^{\text {rd }}$ July 2020
Fractions Unit 3 - Like and unlike fractions
LO: To subtract unlike fractions

## Steps to success

$$
\frac{3}{4}-\frac{1}{6}=?
$$

List the multiples of the denominators, 4 and 6.

$$
\begin{aligned}
& \text { Subtract } \frac{1}{6} \ell \text { from } \frac{3}{4} \ell \text { of milk. } \\
& \text { To subtract, convert } \frac{1}{6} \text { and } \frac{3}{4} \text { to like fractions first. }
\end{aligned}
$$

Multiples of 4:
4,8
12
16, ..
Multiples of 6: 6, 12, 18, 24, ..

12 is the lowest common multiple of 4 and 6 .

$\frac{7}{12} \ell$ of milk was left in Bottle A.

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Here are two fractions $\frac{2}{4}$ and $\frac{1}{6}$.
Convert them to fractions with the same denominator.


What is the first common multiple of 4 and 6 ?

Common multiples:
4: 48
12
6: 6
12


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4 Subtract. Express your answer in its simplest form where necessary.

1. $\frac{7}{12}-\frac{2}{4}$

List the multiples of 12 and 4 :

4: 48
(12)

12: (12)

What is the lowest common multiple?


$$
\frac{7}{12}-\frac{5}{12}=\frac{2}{12}
$$

$$
2_{12}^{i_{2}^{2}} \frac{1}{6}
$$

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## 4 Subtract. Express your answer in its simplest form where necessary.

1. $\frac{5}{6}-\frac{2}{4}$

List the multiples of 6 and 4 :

$$
\begin{aligned}
& 6: 6 \\
& 4: 4,8,12
\end{aligned}
$$

What is the lowest common multiple?


$$
\frac{10}{12}-\frac{b}{12}=\frac{4}{12}
$$

## Fractions Unit 3 - Like and unlike fractions

## LO: To subtract unlike fractions

$\qquad$

## Practice 2 Subtracting unlike fractions

1. Here are two fractions: $\frac{1}{2}$ and $\frac{1}{3}$. Convert them to fractions with the same denominator.


Write the equivalent fractions of $\frac{1}{2}$ and $\frac{1}{3}$ in the boxes.


Now complete this subtraction sentence.
$\frac{1}{2}-\frac{1}{3}=$ $\qquad$ - $\qquad$
$=$ $\qquad$

## Tues 30th ${ }^{\text {June }}$ / Fri $3^{\text {rd }}$ July 2020

## Fractions Unit 3 - Like and unlike fractions

## LO: To subtract unlike fractions

2 Here are two fractions: $\frac{1}{3}$ and $\frac{1}{4}$. Convert them to fractions with the same denominator. Write their equivalent fractions in the boxes.


Now complete this subtraction sentence.
$\frac{1}{3}-\frac{1}{4}=$ $\qquad$ $-$
$=$ $\qquad$
3. Here are two fractions: $\frac{1}{2}$ and $\frac{1}{5}$. Convert them to fractions with the same denominator. Write their equivalent fractions in the boxes.


Now complete this subtraction sentence.
$\frac{1}{2}-\frac{1}{5}=$ $\qquad$ -
$=$ $\qquad$

Tues 30th ${ }^{\text {June }} /$ Fri $3^{\text {rd }}$ July 2020
Fractions Unit 3 - Like and unlike fractions LO: To subtract unlike fractions

4 Subtract. Express your answer in its simplest form where necessary.
a $\frac{7}{12}-\frac{2}{4}=$
b $\frac{7}{9}-\frac{1}{3}=$
c $\frac{5}{6}-\frac{1}{12}=$
d $\frac{4}{5}-\frac{1}{3}=$
no
e $\frac{2}{3}-\frac{3}{8}=$
f $\frac{7}{9}-\frac{1}{4}=$
g $\frac{8}{10}-\frac{3}{4}=$
h $\frac{5}{12}-\frac{1}{9}=$

## Tues 30th ${ }^{\text {June }} /$ Fri $3^{\text {rd }}$ July 2020

Fractions Unit 3 - Like and unlike fractions
LO: To subtract unlike fractions

## Maths Journal

Millie drew a model to find $\frac{4}{5}-\frac{1}{2}$.
She drew the model incorrectly. Explain her mistakes. Then draw the correct model to find the answer.


Millie's model is wrong because:

The correct model is:

Tues 30th ${ }^{\text {June }} /$ Fri $3^{\text {rd }}$ July 2020

## Fractions Unit 3 - Like and unlike fractions

## LO: To subtract unlike fractions

Date:

## Practice 2 Subtracting unlike fractions

1) Here are two fractions: $\frac{1}{2}$ and $\frac{1}{3}$. Convert them to fractions with the same denominator.
$\qquad$


Write the equivalent fractions of $\frac{1}{2}$ and $\frac{1}{3}$ in the boxes.


Now complete this subtraction sentence.

$$
\begin{aligned}
\frac{1}{2}-\frac{1}{3} & =\frac{\frac{3}{6}}{\frac{1}{6}} \\
& =\frac{\frac{2}{6}}{}
\end{aligned}
$$

## Fractions Unit 3 - Like and unlike fractions

## LO: To subtract unlike fractions

2. Here are two fractions: $\frac{1}{3}$ and $\frac{1}{4}$. Convert them to fractions with the same denominator. Write their equivalent fractions in the boxes.

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



Now complete this subtraction sentence.

$$
\begin{aligned}
\frac{1}{3}-\frac{1}{4} & =\frac{\frac{4}{12}}{-\frac{3}{12}} \\
& =\frac{1}{12}
\end{aligned}
$$

3 Here are two fractions: $\frac{1}{2}$ and $\frac{1}{5}$. Convert them to fractions with the same denominator. Write their equivalent fractions in the boxes.


Now complete this subtraction sentence.

$$
\begin{aligned}
\frac{1}{2}-\frac{1}{5} & =\frac{\frac{5}{10}}{\frac{3}{10}}--\frac{2}{10} \\
& =
\end{aligned}
$$

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Fractions Unit 3 - Like and unlike fractions
LO: To subtract unlike fractions

4 Subtract. Express your answer in its simplest form where necessary.
a $\frac{7}{12}-\frac{2}{4}=\frac{7}{12}-\frac{6}{12}$ $=\frac{1}{12}$
b $\frac{7}{9}-\frac{1}{3}=\frac{7}{9}-\frac{3}{9}$
$=\frac{4}{9}$
c $\quad \frac{5}{6}-\frac{1}{12}=\frac{10}{12}-\frac{1}{12}$
d $\frac{4}{5}-\frac{1}{3}=\frac{12}{15}-\frac{5}{15}$ $=\frac{7}{15}$
e $\frac{2}{3}-\frac{3}{8}=\frac{16}{24}-\frac{9}{24}$
f $\quad \frac{7}{9}-\frac{1}{4}=\frac{28}{36}-\frac{9}{36}$
$=\frac{19}{36}$
g $\frac{8}{10}-\frac{3}{4}=\frac{16}{20}-\frac{15}{20}$
$=\frac{1}{20}$
h $\frac{5}{12}-\frac{1}{9}=\frac{15}{36}-\frac{4}{36}$
$=\frac{11}{36}$

Tues 30th ${ }^{\text {June }} /$ Fri $3^{\text {rd }}$ July 2020

## Fractions Unit 3 - Like and unlike fractions

## LO: To subtract unlike fractions

Date: $\qquad$

## Maths Journal

1) Millie drew a model to find $\frac{4}{5}-\frac{1}{2}$.

She drew the model incorrectly. Explain her mistakes. Then draw the correct model to find the answer.


Millie's model is wrong because:
$\frac{4}{5}=\frac{8}{10}$
8 out of 10 parts should be shaded instead.
$\frac{1}{2}=\frac{5}{10}$
5 out of 10 parts should be taken away.

The correct model is:


$$
\begin{array}{ll}
\text { Total } & =10 \text { parts } \\
\text { Remainder } & =3 \text { parts } \\
\text { Answer } & =\frac{3}{10}
\end{array}
$$

