planit

## Maths

## Fractions

## Adding Fraction Multiples

## Aim

- I can add fractions with denominators that are multiples of the same number.


## Success Criteria

- I can add fractions with the same denominator.
- I can convert between improper and mixed number fractions.
- I can use multiplication to change a fraction into an equivalent.
- I can add fractions with denominators that are multiples of the same number.


## Improper and Mixed Number Fraction Count

Count forwards along the fraction counting stick in mixed numbers.
$0 \quad \frac{1}{5}<\frac{2}{5} \times \frac{3}{5}=\frac{4}{5}{\underset{\sim}{1}}_{1 \|}^{1}=1 \frac{1}{5} \quad 1 \frac{2}{5} \quad 1 \frac{3}{5} \quad 1 \frac{4}{5} \quad 2$


Count backwards along the fraction counting stick in improper fractions.

## Improper and Mixed Number Fraction Count



## Improper and Mixed Number Fraction Count

Count forwards along the fraction counting stick in mixed numbers.

3

 $4 \frac{2}{3}$ 5


Count backwards along the fraction counting stick in improper fractions.

## Same Denominators

In this fraction addition, both the fractions have the same denominator.


To solve the calculation, the denominator stays the same, and the numerators are added together.

## Same Denominators

## In this fraction addition, both the fractions

 have the same denominator.

## Same Denominators

In this fraction addition, both the fractions have the same denominator.

This answer is an improper fraction. Change it to a mixed number.

This answer can be simplified.

$$
=\frac{11}{4}+\frac{3}{4}=\frac{14}{4}=3 \frac{1}{2}
$$



This is a mixed number. Change it to an improper fraction before calculating.


## Denominator Multiples

In this fraction addition, both the fractions have different denominators which are multiples of the same number.


To solve the calculation, we use multiplication to change the fraction with the lowest denominator into an equivalent fraction with the same denominator as the other fraction.

Remember to do the same multiplication to the numerator.

## Denominator Multiples

Now we have a calculation where both the denominators are the same number.


## Denominator Multiples

Let's try this with another calculation where the fractions have different denominators which are multiples of the same number.


## Denominator Multiples

Let's try this with another calculation where the fractions have different denominators which are multiples of the same number.

$$
\times 5=25
$$



## Adding Fractions Match-Up




## Aim

- I can add fractions with denominators that are multiples of the same number.


## Success Criteria

- I can add fractions with the same denominator.
- I can convert between improper and mixed number fractions.
- I can use multiplication to change a fraction into an equivalent.
- I can add fractions with denominators that are multiples of the same number.


