

## Introduction

This Y3 Fractions unit continues to build on children's knowledge of unit and non-unit fractions. It introduces children to the concept of tenths based on division by 10, finding fractions of sets of objects and amounts, identifying equivalent fractions, adding and subtracting fractions and comparing and ordering fractions. Children consolidate these skills by solving problems involving tenths and other fractions.

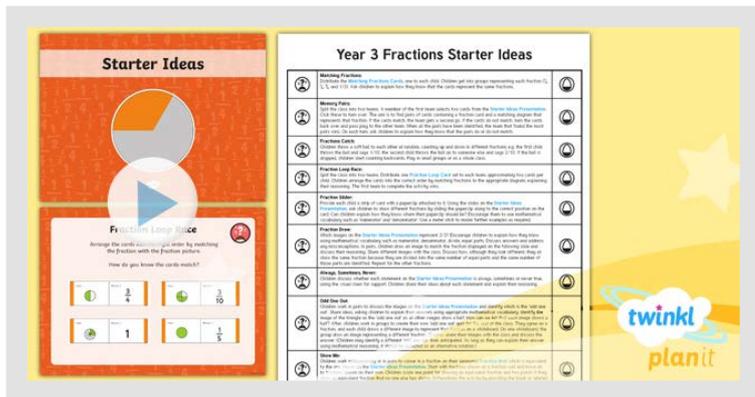
## Resources

In addition to your standard maths resources you will need a ball, and a class set of laminated [Fraction Walls](#) and [Blank Fraction Walls](#).

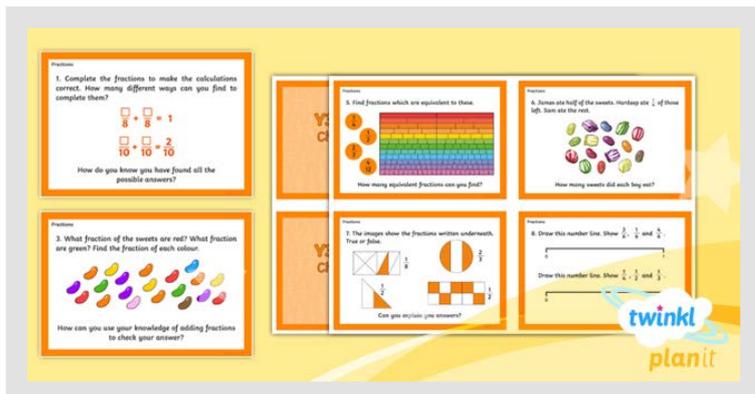


## Solvet Lesson Pack: Cutting the Cake

In this problem solving lesson, children investigate finding unit fractions of a patterned cake, and calculate how many sections of the cake are in each fraction. As well as the Lesson Plan, Lesson Presentation and Activity Sheets, support and extension activities are included.



## Starter Ideas



## Challenge Cards

## Assessment Statements

By the end of this unit...

### ...all children should be able to:

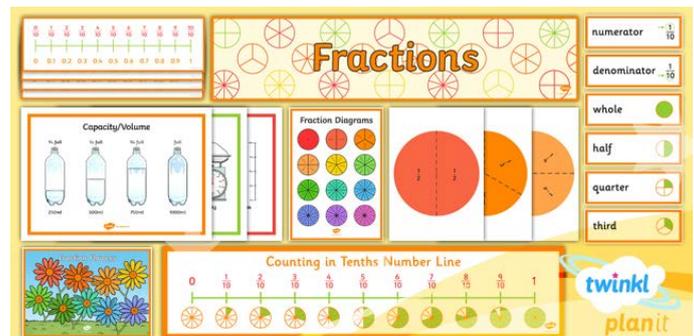
- use resources to add and subtract fractions with the same denominator;
- use resources to compare and order unit fractions;
- share objects to find a fraction of a set of objects;
- identify pairs of equivalent fractions on a fraction wall.

### ...most children will be able to:

- add and subtract fractions with the same denominator;
- compare and order simple fractions;
- use resources to identify equivalent fractions;
- complete fraction number lines and number sequences;
- use resources to support finding a fraction of a set of objects or number.

### ...some children will be able to:

- use  $<$ ,  $>$  and  $=$  to compare groups of fractions;
- place fractions appropriately on a blank number line;
- understand the link between tenths as fractions and as decimals;
- calculate unit and non-unit fractions of sets of objects or numbers;
- recall equivalents for unit and non-unit fractions;
- complete and create fraction number sequences.



## Display Pack

## Lesson Breakdown

Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.

### Recognise and Count in Tenths: Tenths

I can recognise and count in tenths.

### Home Learning: Recognising Tenths

Differentiated activities based on identifying tenths of different shapes.

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

### Recognise Fractions of a Set of Objects: Recognising Fractions

I can recognise fractions of a set of objects.

### Fractions of a Set of Objects (1): Unit Fractions

I can find unit fractions of a set of objects.

### Fractions of a Set of Objects (2): Non-Unit Fractions

I can find non-unit fractions of a set of objects.

### Home Learning: Finding Fractions

These differentiated Activity Sheets encourage children to use objects around the house to help with sharing, then finding fractions of a set of objects.

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

### Fractions as Numbers : Counting in Fractions

I can use fractions as numbers.

### Fractions of a Quantity (1): Unit Fractions

I can calculate unit fractions of a quantity.

### Fractions of a Quantity (2): Non-Unit Fractions

I can calculate non-unit fractions of a quantity.

### Home Learning: Fractions as Numbers

In this differentiated activity, children create fraction number lines in different sized fraction steps.

Recognise and show, using diagrams, equivalent fractions with small denominators.

### Recognise and Show Equivalent Fractions (1): Fraction Wall

I can recognise and show equivalent fractions.

### Recognise and Show Equivalent Fractions (2): Fraction Pairs

I can identify equivalent fractions.

### Home Learning: Equivalent Fractions

These differentiated Activity Sheets help children practice identifying equivalent fractions on fraction walls.

Add and subtract fractions with the same denominator within one whole.

### Add and Subtract Fractions (1): Adding Fractions

I can add fractions with the same denominator.

### Add and Subtract Fractions (2): Subtracting Fractions

I can subtract fractions with the same denominator.

### Home Learning: Adding and Subtracting Fractions

In this differentiated activity, children add fractions and then identify the inverse.

Compare and order unit fractions, and fractions with the same denominators.

### Compare and Order Fractions (1): Comparing Fractions

I can compare and order fractions with the same denominator.

### Compare and Order Fractions (2): Comparing Unit Fractions

I can compare and order unit fractions.

### Home Learning: Comparing Fractions

A set of differentiated comparing and ordering fractions Activity Sheets.

Solve problems that involve all of the above.

### Tenths Problems: Problems with Tenths

I can solve problems involving tenths.

### Fractions Problems: Problems with Fractions

I can solve problems involving finding fractions of numbers.

### Home Learning: Picnic Fractions

These differentiated Activity Sheets involve finding fractions of amounts of foods eaten on a picnic.