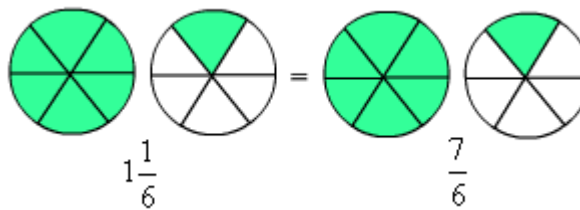


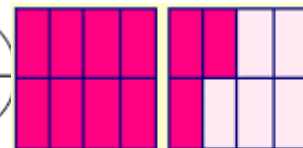
Improper and mixed number fractions



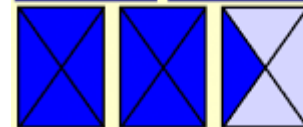
When dealing with improper fractions the numerator is bigger than the denominator

HOW TO CONVERT IMPROPER FRACTIONS TO MIXED NUMBERS EXPLAINED!

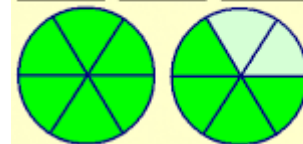
$$\frac{13}{6} = 2\frac{1}{6}$$



$$\frac{11}{8} = 1\frac{3}{8}$$



$$\frac{9}{4} = 2\frac{1}{4}$$

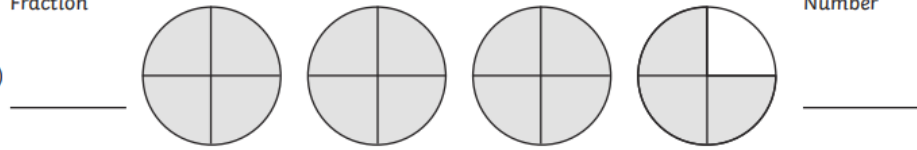


$$\frac{10}{6} = 1\frac{4}{6}$$

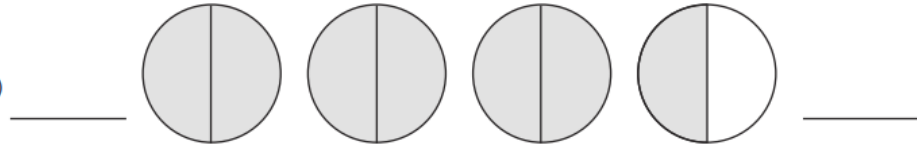
Improper
Fraction

Mixed
Number

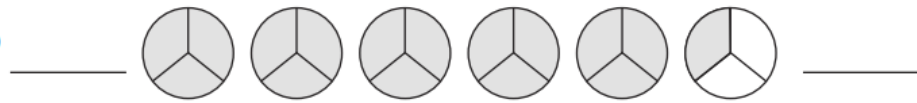
a)



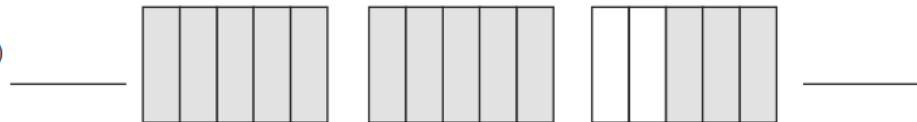
b)



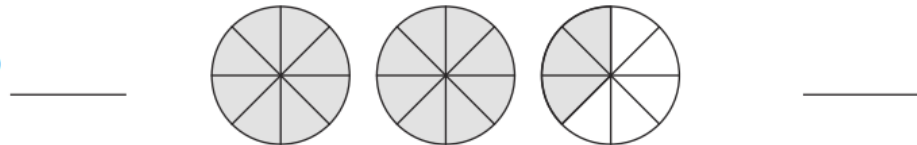
c)



d)



e)



f)



The denominator is always how many parts would make a whole so for the first question (a) the wholes are split into 4 so we know our denominator = 4

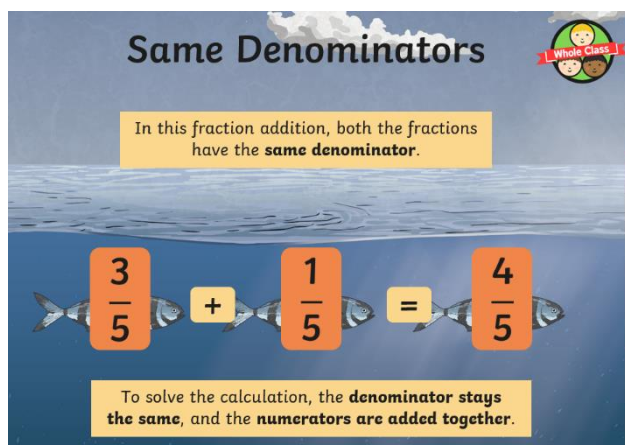
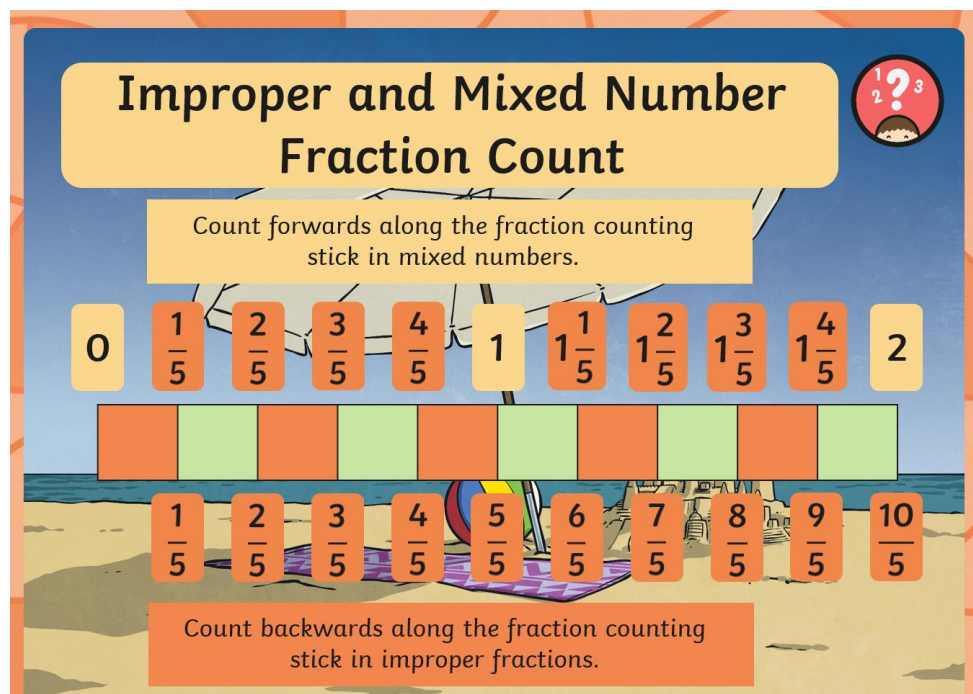
3 wholes have been shaded in and an extra $\frac{3}{4}$ so the first line shows $3\frac{3}{4}$ as a mixed number.

And as an improper number 15 parts have been shaded so it is $\frac{15}{4}$

Do not put 16 as your denominator! Although 15 out of the 16 pieces have been shaded we are dealing with what makes the whole. 4 pieces make the whole (you can see they have been cut up into 4)

Adding and subtracting fractions with the same denominators.

An improper fraction is where the numerator is bigger than the denominator. You might have seen these fractions be called top heavy fractions too. A mixed number fraction contains a whole number and a fraction.



When we add fractions with the same denominator we simply add the numerators and leave the denominators alone.

Same Denominators

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

This is the same answer written as a mixed number.

$$\frac{5}{3} + \frac{6}{3} = \frac{11}{3} = 3\frac{2}{3}$$

This answer is an improper fraction. The denominator tells us the whole is made of three parts.

Same Denominators

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

$$2\frac{3}{4} + \frac{3}{4} =$$

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

It is easier to add

improper fractions rather than mixed fractions as you simply add the numerators. You must convert the mixed fraction first

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.

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

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

$2\frac{3}{4}$

becomes $11/4$

Questions

Answer and create questions based on adding improper and mixed fractions

e.g.

$$2/6 + 5/6 =$$

$$2/9 + 5/9 + 6/9 =$$

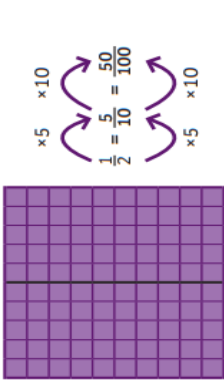










$$4/17 + 23/17 =$$



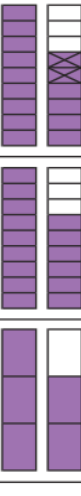


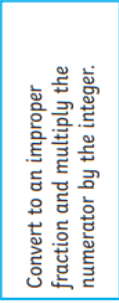


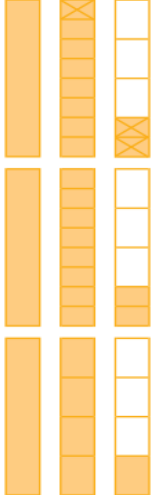
Work out the totals as improper fractions and then convert them to mixed numbers

$$1\frac{1}{2} + 5/2 =$$

$$3\frac{5}{8} + 17/8 =$$

$$6\frac{3}{4} + 2/4 =$$

Fractions		Knowledge Organiser	
Key Vocabulary	Equivalent Fractions	Compare and Order Fractions	
numerator	<p>To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.</p> 	<p>We can compare and order fractions by using common denominators.</p>  	
denominator			
unit fraction			
non-unit fraction			
whole			
equivalent	Improper Fractions		
mixed number	Mixed numbers contain a whole number and a fraction.	An improper fraction has a numerator which is greater than or equal to the denominator.	$\frac{5}{3}$
improper fraction	Convert an Improper Fraction to a Mixed Number		
simplest form	$9 \div 4 = 2 \text{ r } 1$	<p>This shows you the whole number and the fraction.</p> 	<p>Add the fractions together.</p> 
multiple	<p>Divide the numerator by the denominator.</p> 		
common denominator	Adding and Subtracting Fractions		
common numerator	To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.		
 <small>visit twinkl.com</small>	 $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$	 $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$	 $\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$
	 $\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$		

Fractions		Knowledge Organiser	
Add Fractions Where the Total is Greater Than 1		Subtract from a Mixed Number	
$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$ 		$1\frac{2}{3} - \frac{2}{9} = 1\frac{4}{9} - \frac{2}{9} = 1\frac{2}{9}$	
Add Mixed Numbers		starting number find the equivalent fraction subtract	
$1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1 + \frac{5}{8} = 1\frac{5}{8}$ $1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$ 			
Multiply Unit Fractions by an Integer		Multiply Non-Unit Fractions by an Integer	
$\frac{1}{3} \times 5 = \frac{5}{3}$ 		$2 \times \frac{4}{9} = \frac{8}{9}$ 	
Multiply Mixed Numbers by Integers		Subtract Two Mixed Numbers	
<p>Convert to an improper fraction and multiply the numerator by the integer.</p> $2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$ 		$2\frac{3}{4} - 1\frac{5}{8} = 1\frac{6}{8} - 1\frac{5}{8} = \frac{1}{8}$ 	
Multiply Mixed Numbers by Integers		Subtract from a Mixed Number - Breaking the Whole	
<p>Use repeated addition.</p> $2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$ 		$2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$ 	

Foundation subjects	

	<p>In our bubble we have used all our geography skills to become experts on a certain country. We explored many aspects of that country and started by writing an information text on that country. We have planned presentations and produced artwork on our chosen place too. We will then be comparing it to the UK. Below are some links that I played the children before they made their decision. If you want to, you can choose a different country/place to explore.</p>
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Baghdad Which is in Iraq	How Houses looked in Baghdad 900AD History of Early Civilisations BBC Teach - YouTube Baghdad in 900AD, the golden age of Islam History - Lost Lands - YouTube Visit a Child Friendly School in Baghdad UNICEF Iraq - YouTube
Peru	Journey Through Peru's Incredible Sights in 6 Minutes Short Film Showcase - YouTube Peru Facts for Kids - Junior Jetsetters - YouTube
Kenya	Junior Jetsetters Kenya Facts for Kids - YouTube Introducing Kenya - YouTube Cee-Roo - Feel The Sounds of Kenya - YouTube KENYA Trip of a lifetime - YouTube
Greenland	What It's Like to Grow Up on the Greenland Tundra Op-Docs - YouTube GREENLAND - LAND OF ICE 4K - YouTube Incredible Facts About Greenland - YouTube
Philippines	PHILIPPINES! - Mini Fantastic Facts - YouTube 10 Things You Didn't Know About the Philippines - YouTube Geography Kids - PHILIPPINES! - YouTube
UK	Geography KS1 KS2 The United Kingdom BBC Teach - YouTube

[Physical Geography UK - YouTube](#)

[Top 10 Places To Visit In The UK - YouTube](#)

Physical geography is naturally occurring, we have not made it

Physical Geography



biome



mountain



ocean



beach



cliff



vegetation



forest



river



soil



valley



desert



tropical savanna



rainforest



taiga



tundra

HLTA	F	TA	I
LO: Research my chosen country			
I can	Identify the physical features of my country <u>e.g.</u> coasts, rivers, climate zones and mountains		
I know	How to ask geographical questions <u>e.g.</u> what is the landscape like? and research the answers		
I understand	Geographical similarities and differences between my chosen country and another		

Kenya
Greenland
Peru
Philippines
Baghdad (in Iraq)
UK

Use the computers, atlases and fact sheets to explore your chosen country. Things to look for:

Population

Capital city

Location - continent

Time zone

Longitude and Latitude

Famous rivers

Volcanoes

Mountains

Climate

Biomes

Language

Religion

Interesting facts

Leader/ ruler

Traditional foods

Popular sports

Major bodies of water e.g. lakes

Coastlines and oceans



You must explore the physical features of your chosen country. Remember physical features are all natural.