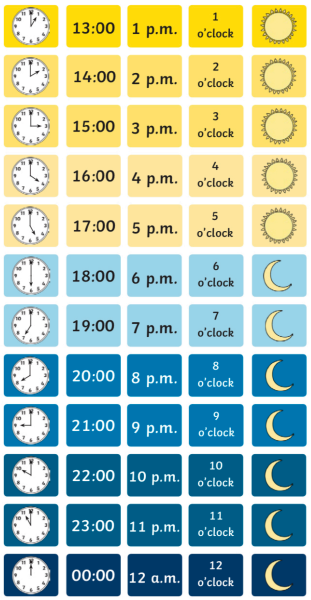
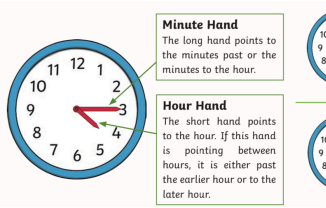
Knowledge Organiser - Maths

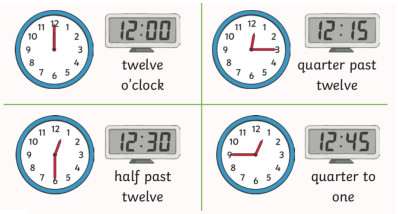
Key Vocabulary

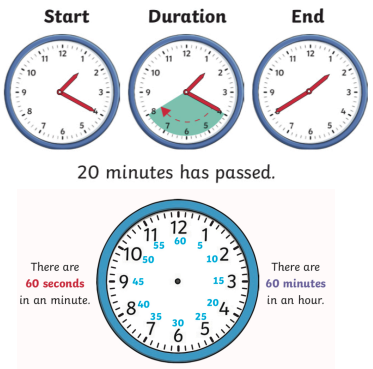
numerator	the number above the line in a fraction.	
denominator	the number below the line in a fraction.	
equivalent	equal in value or amount.	
clock	clock is a device used to tell time. Moving hands on the face of a clock point to the current hour, minute, and second. ... A clock can also be small enough to fit on a person's wrist, where it is called a watch.	
analogue	an analogue clock is a circular-faced clock with the numbers one to twelve around the outside and two hands, a shorter one to measure hours and a longer one to measure minutes.	
digital	a digital clock is a clock which simply shows numbers to show the time. It is usually battery or electricity powered.	

Key Facts - Time



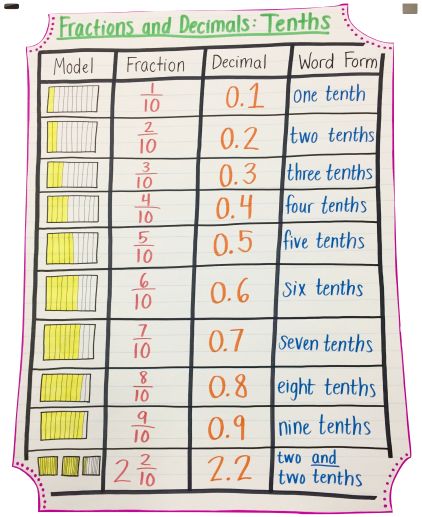




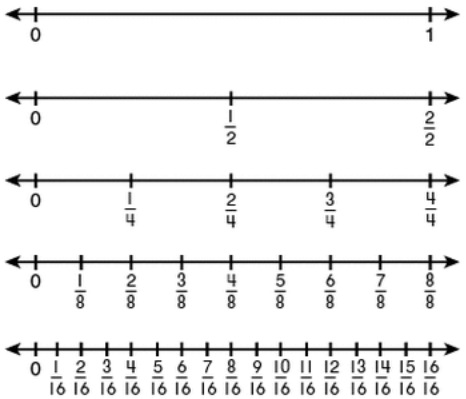


Key Facts - Fractions

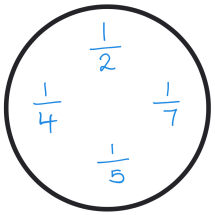
The fraction one-tenth is the whole divided into ten equal parts. 1 ÷ 10 = 0.1 so one-tenth is equivalent to 0.1 when written as a **decimal**.

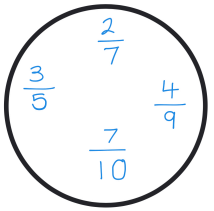


A number line is a great way of seeing the order that fractions go in and allows us to compare fractions.
It works in the exact same way as a normal number line, but the numerators are the numbers that increase or decrease, while the denominators stay exactly the same.



A **unit fraction** is any **fraction** with 1 as its numerator (top number), and a whole number for the denominator (bottom number).

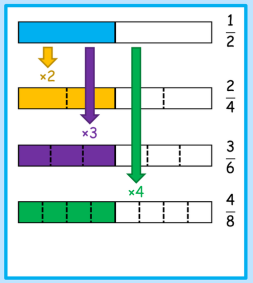




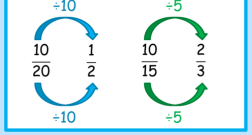
A **non-unit fraction** is a **fraction** where the numerator (the number on the top half of the **fraction**) is greater than 1.

Equivalent fractions

You can find equivalent fractions quickly by multiplying the numerator and denominator by the same number.



To cancel a fraction to its simplest form, divide the numerator and denominator by the same amount.



Top Tip
Learn your times tables thoroughly to make simplifying fractions easier to do.

Equivalent fractions

Two fractions are equivalent if they represent the same proportion of a whole, or the same sized portion of the original.

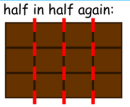
Here is a chocolate bar with 12 squares.

I could break this chocolate bar in half:

Each share is $\frac{1}{2}$ of the bar.

Each share is $\frac{6}{12}$ pieces. $\frac{1}{2} = \frac{6}{12}$

If I broke each half in half again:



Each share is $\frac{1}{4}$ of the bar.

Each share is $\frac{3}{12}$ pieces. $\frac{1}{4} = \frac{3}{12}$