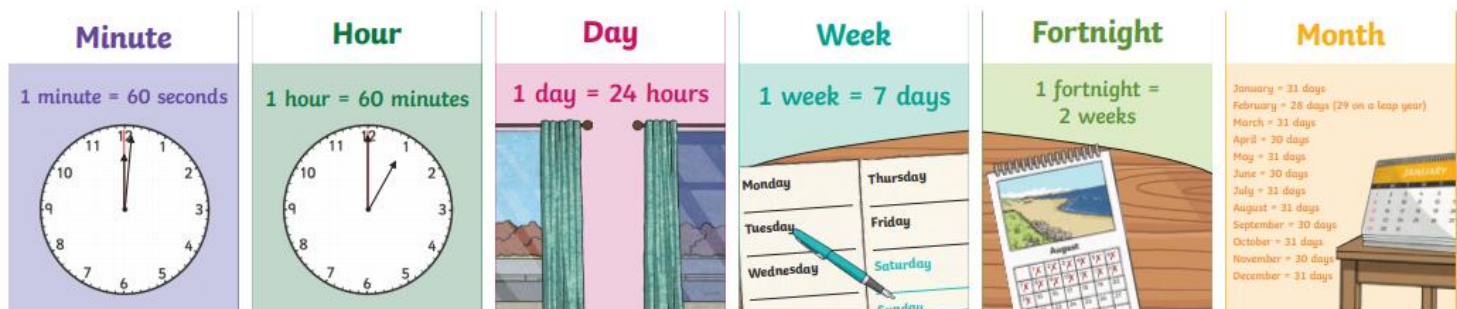


Time

Another important measurement is time. We all use this in our day-to-day lives and it is essential that we can measure time accurately. This is also something you can get lots of practice measuring at home.

It is important that you are familiar with the units of time below:



Converting Units of Time

Complete the conversions.

1 year = months

years = 24 months

years = 60 months

2.5 years = months

3 years 2 months = months

years months = 75 months

How many of the conversions above can you complete?

I think that I am going to have to use both multiplication and division to solve these problems.

Example:

years = 24 months

2.5 years = months

I know that there are 12 months in 1 year

So, to find how many years are in 24 months I will need to divide it by 12

$$24 \div 12 = 2$$

$$2 \text{ years} = 24 \text{ months}$$

I can answer the second question using what I have discovered in the first question

I now know that there are 24 months in 2 years

If there are 12 months in one year, there must be 6 months in half a year

$$2.5 \text{ years} = 30 \text{ months}$$

Take a look at how I have started to solve the questions below. Can you show me how to work out the final question?

Convert the units of time.



3 minutes and
9 seconds

_____ seconds



1 hour and 25
minutes

_____ minutes



3 weeks and
1 day

_____ days

I know that there are 60
seconds in a minute.

$$60 \times 3 = 180$$

(in my head I calculated 6×3
first)

$$3 \text{ minutes} = 180 \text{ seconds}$$

$$180 + 9 = 189$$

$$3 \text{ minutes } 9 \text{ seconds} = \\ 189 \text{ seconds}$$

I know that there are 60
minutes in an hour

$$1 \times 60 = 60$$

$$60 + 25 = 85$$

$$1 \text{ hour and } 25 \text{ minutes} = \\ 85 \text{ minutes}$$

I know that there are 7
days in one week

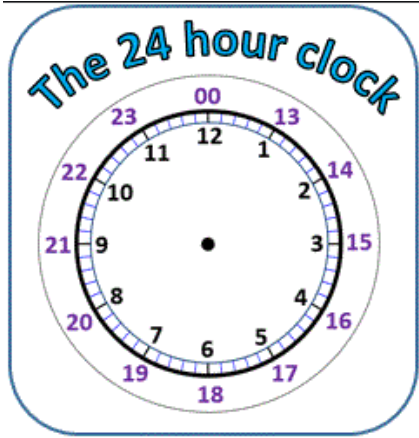
Helpful links:

- Finding time a bit confusing? This link will take you to a whole page of videos that will explore time in more detail <https://www.bbc.co.uk/teach/class-clips-video/maths-ks1-ks2-round-the-clock/zj6xjhy>
- Converting units of time: <https://www.bbc.co.uk/teach/class-clips-video/maths-ks2-units-of-time/z6fgkmm>

Using Time Tables

Our understanding of time can help us to understand time tables. These are used for bus/train times, cinema times and even in school. Each time table can look slightly different so it is important that we read each one carefully.

The 24 hour clock



Some tables may use the '24 hour clock'. This helps to make it clear exactly what time something is happening and takes away the need to explain whether it is in the morning or the afternoon.

For example:

School starts at 08:50 or 8.50 am

School ends at 15:15 or 3.15 pm

Can you create any other examples?

Interpreting time tables

Bus Timetable					
Halifax Bus Station	06:05	06:35	07:10	07:43	08:15
Shelf Roundabout	06:15	06:45		07:59	08:31
Shelf Village Hall	06:16	06:46	07:35	08:00	08:32
Woodside	06:21	06:50	07:28		
Odsal	06:26	06:55	07:33	08:15	08:45
Bradford Interchange	06:40	07:10	07:48	08:30	09:00

I can see that this timetable starts with a list of different bus stops, and has the time that each bus leaves the stop.

I'm going to look at the first bus of the day which leaves Halifax Bus Station at 06:05. It then gets to Shelf Roundabout at 06:15. This must mean that it takes 10 minutes to travel from Halifax Bus Station to Shelf Roundabout. I can keep following this column down to see which time this bus arrives at different stations.

Take a look at the 07.43 bus to leave Halifax Bus Station. What can you tell me about the journey of this bus? How long does it take for this bus to travel between stops? Does it stop at all of the bus stops? How long does it take before it arrives at its final destination?

Want some more practice?

- This video gives you the chance to practice your understanding of timetables. <https://www.bbc.co.uk/teach/class-clips-video/maths-ks2-using-timetables/zn2hy9a>
- Try and create this time table! You will need to use your understanding of converting units of time.

There are five TV programmes on between 17:00 and 23:00

The News starts at 6 p.m. and lasts for 45 minutes.

Mindless is on for 1 hour and ends at 18:00.

Junk Collectors is on for 75 minutes and starts straight after The News.

Catch Up is on for 300 seconds and starts at 20:00

The Thirsty Games is on for 175 minutes and ends at 23:00

Make a timetable for the evening TV.