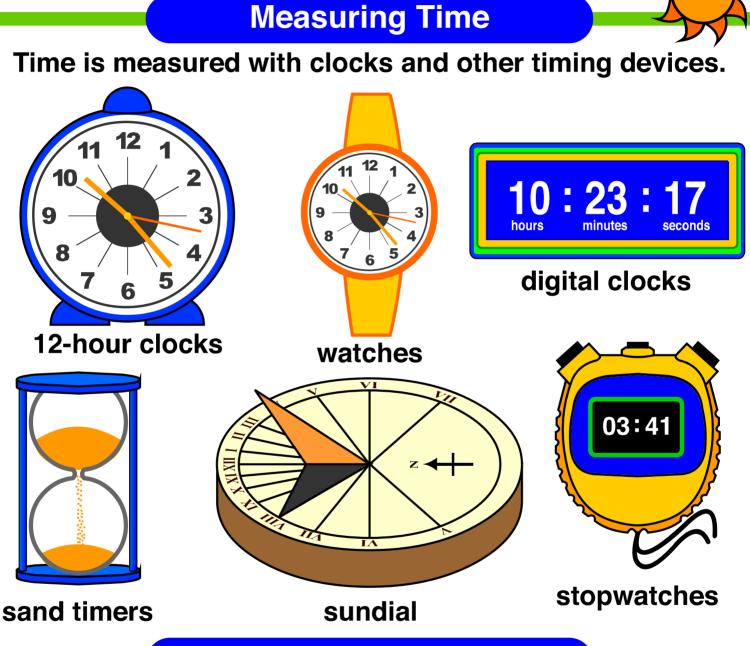
Time, time devices

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

Time is the continuum from past to present to future. It is also the interval between two events or the duration of a single event.



Global Timekeeping

Time is so important to human activity that timekeeping is coordinated at an international level using over 200 atomic clocks. International Atomic Time (TAI) is the most accurate time.

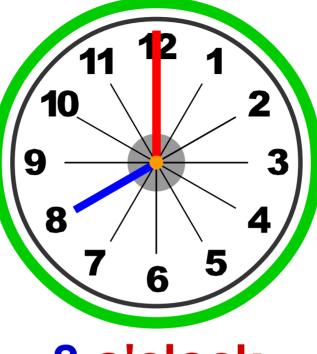
Coordinated Universal Time (UTC) is used to synchronize timekeeping systems around the earth.

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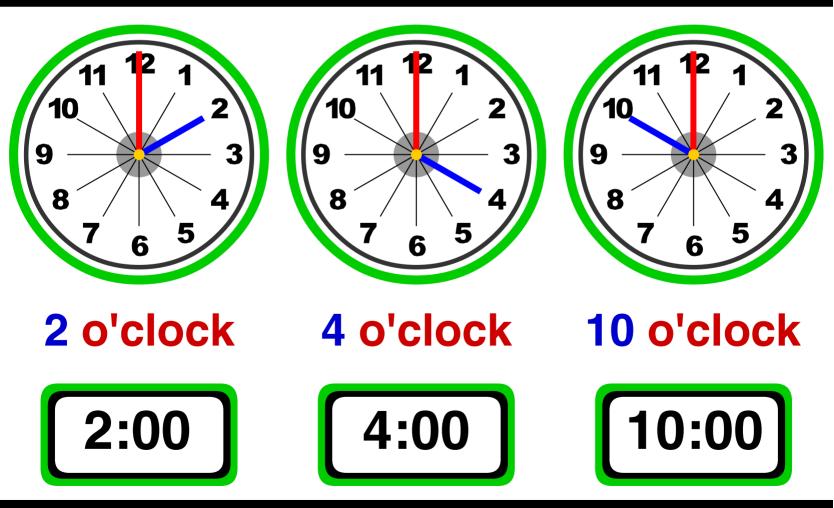
Telling time - o'clock

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

Hour Hand on hour Minute Hand on 12 - o'clock





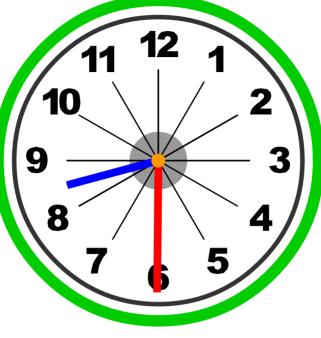


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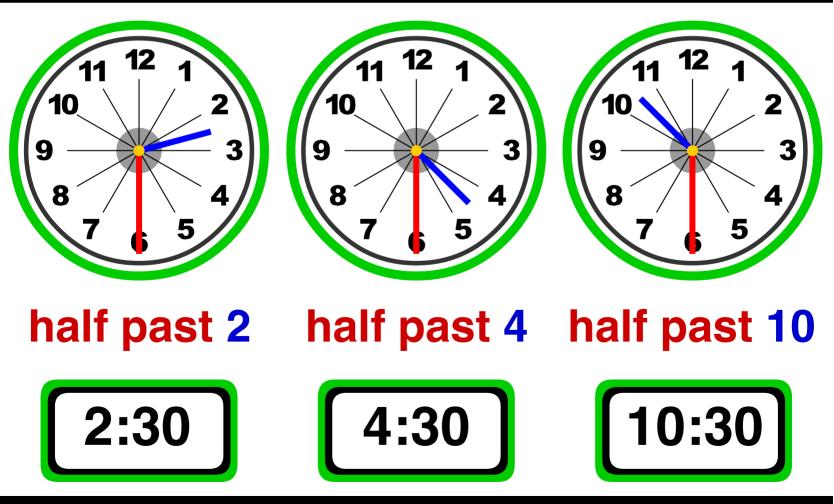
Telling time - half past

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

Hour Hand half way past hour Minute Hand on 6 - half past



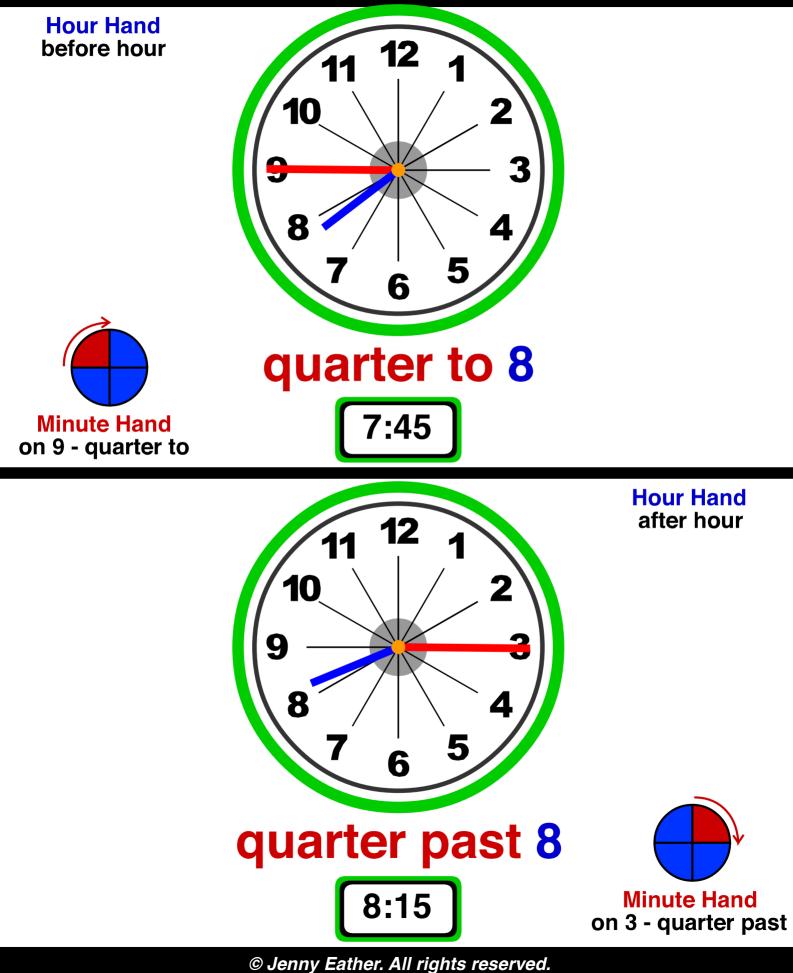
half past 8



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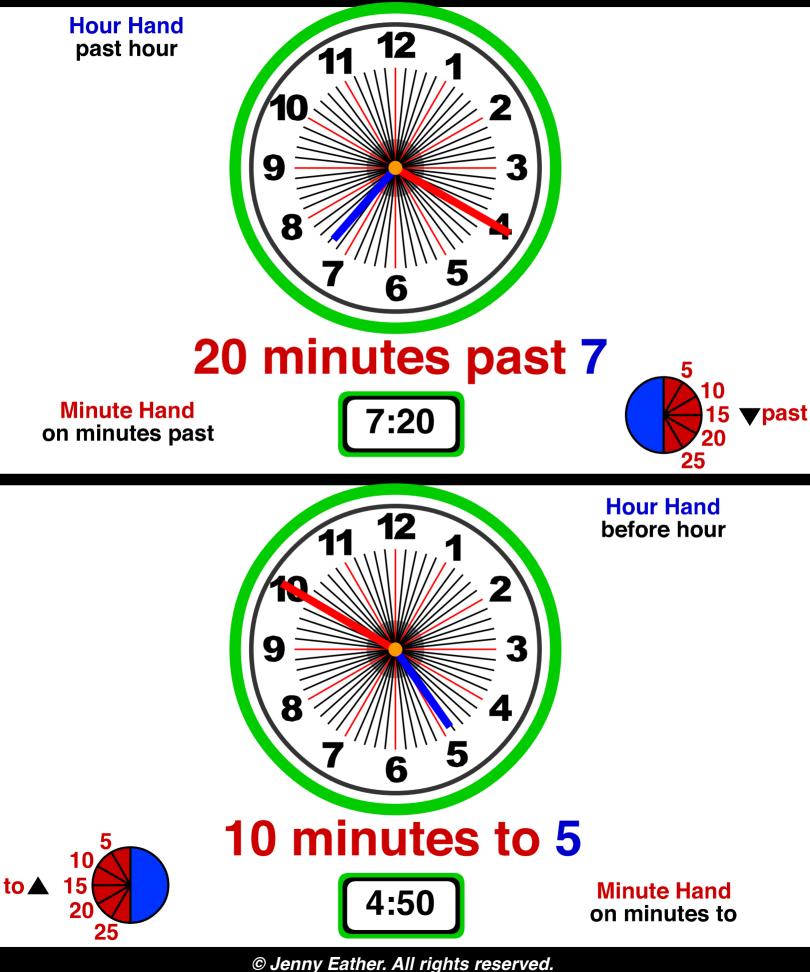
Telling time - quarter hours

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com



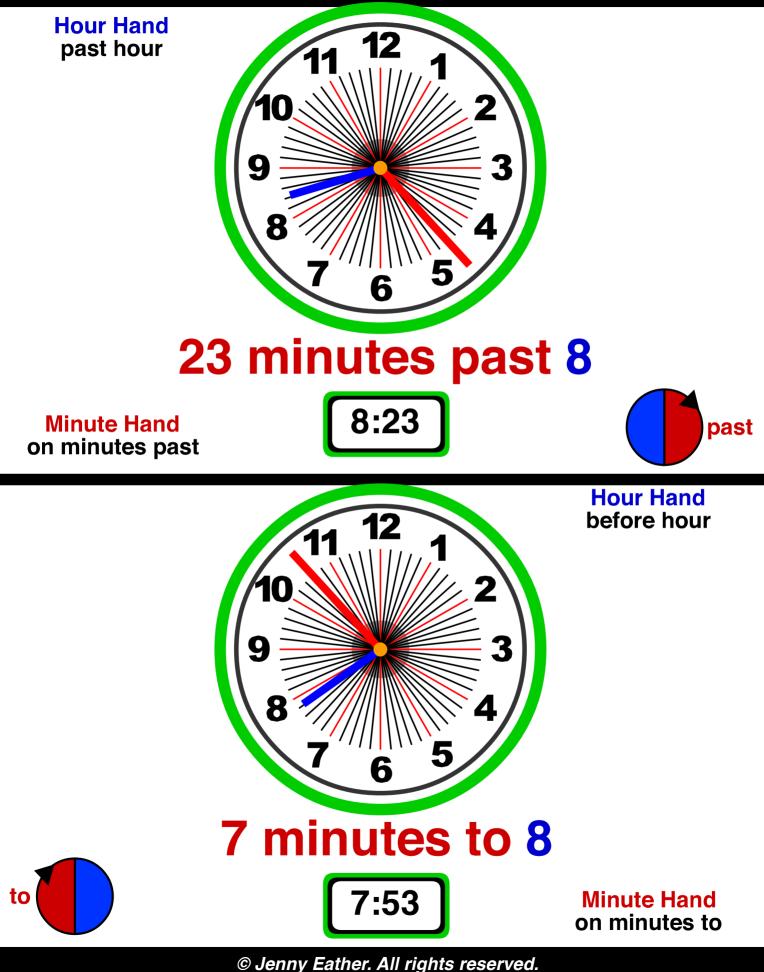
Telling time - nearest 5 minutes

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com



Telling time - nearest minute

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Digital clocks

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A digital clock uses digits (numbers) to show the time.

Digital clocks can be be made cheaply and are included in a wide range of devices such as phones, computers, media players, televisions, microwave ovens and other household appliances.

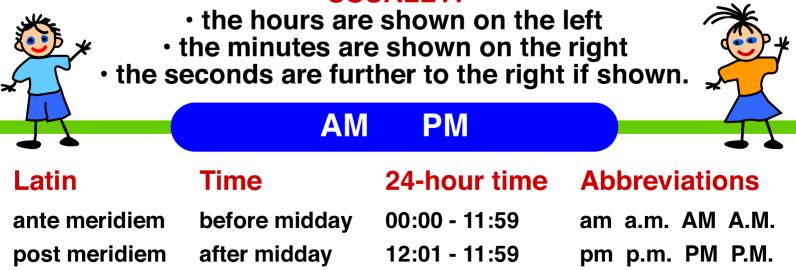
Example

The digits show the time with the hours, minutes and seconds often separated by a colon.



Many digital clocks show twenty-four hour time intervals to avoid using a.m. and p.m.

USUALLY:



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Times of the day

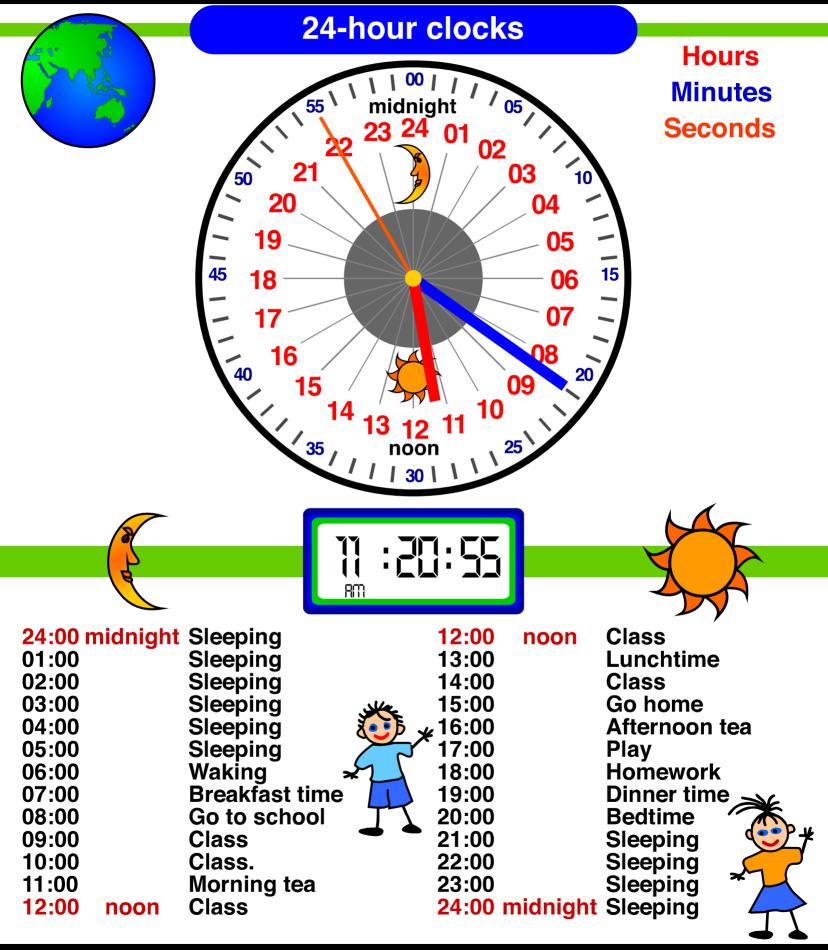
From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A day is the time it takes for the earth to revolve once.

	1 d	ay = 2	24 hours					
night	00:00	0:00	midnight	Sleeping				
ingit	01:00	1:00	a.m.	Sleeping				
	02:00	2:00	a.m.	Sleeping				
×	03:00	3:00	a.m.	Sleeping				
9)	04:00	4:00	a.m.	Sleeping				
	05:00	5:00	a.m.	Sleeping				
	06:00	6:00	a.m.	Waking				
sunrise –	07:00	7:00	a.m.	Breakfast time 🌋				
	08:00	8:00	a.m.	Go to school				
	09:00	9:00	a.m.	Class *				
	10:00	10:00	a.m.	Class.				
	11:00	11:00	a.m.	Morning tea				
day	12:00	12:00	noon	Class				
	13:00	1:00	p.m.	Lunchtime				
	14:00	2:00	p.m.	Class +				
	15:00	3:00	p.m.	Go home				
	16:00	4:00	p.m.	Afternoon tea				
- /	17:00	5:00	p.m.	Play				
sunset –	18:00	6:00	p.m.	Homework				
•	19:00	7:00	p.m.	Dinner time				
K	20:00	8:00	p.m.	Bedtime				
4	21:00	9:00	p.m.	Sleeping				
)	22:00	10:00	p.m.	Sleeping				
	23:00	11:00	p.m.	Sleeping				
night	24:00	12:00	midnight					
Latin	Time	2	24-hour tin	ne Abbreviations				
ante meridiem	before mid	day 0	0:00 - 11:59	am a.m. AM A.M.				
post meridiem	after midda	ıy 1	2:01 - 11:59	pm p.m. PM P.M.				
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24-hour time

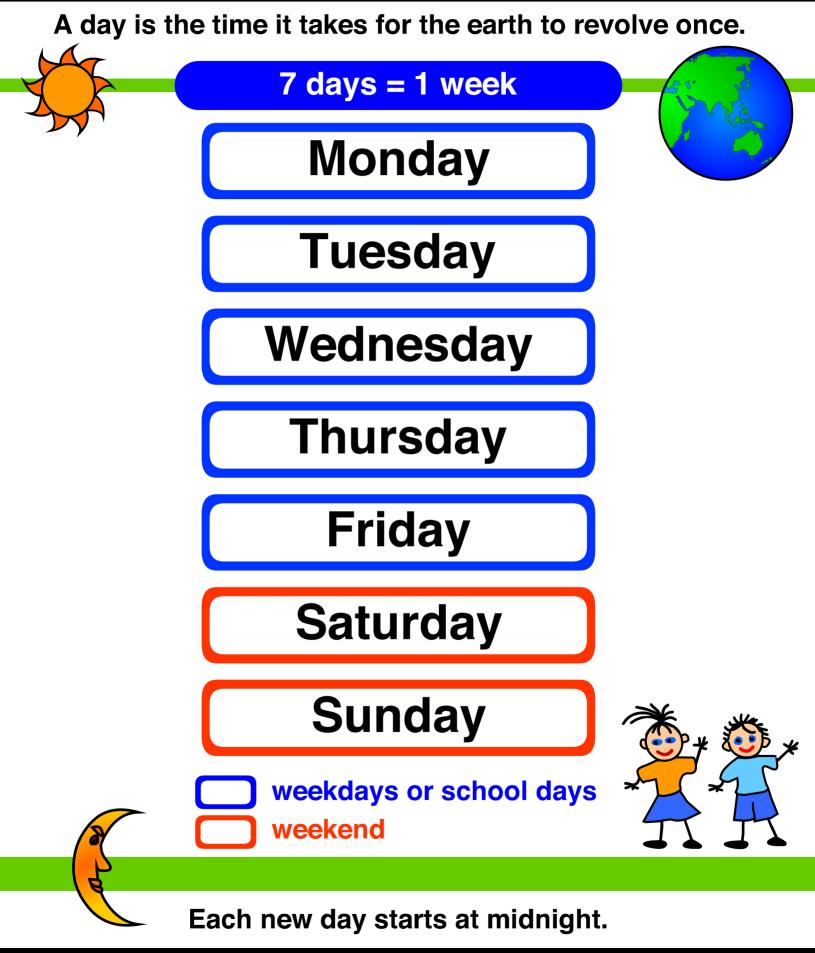
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Days of the week

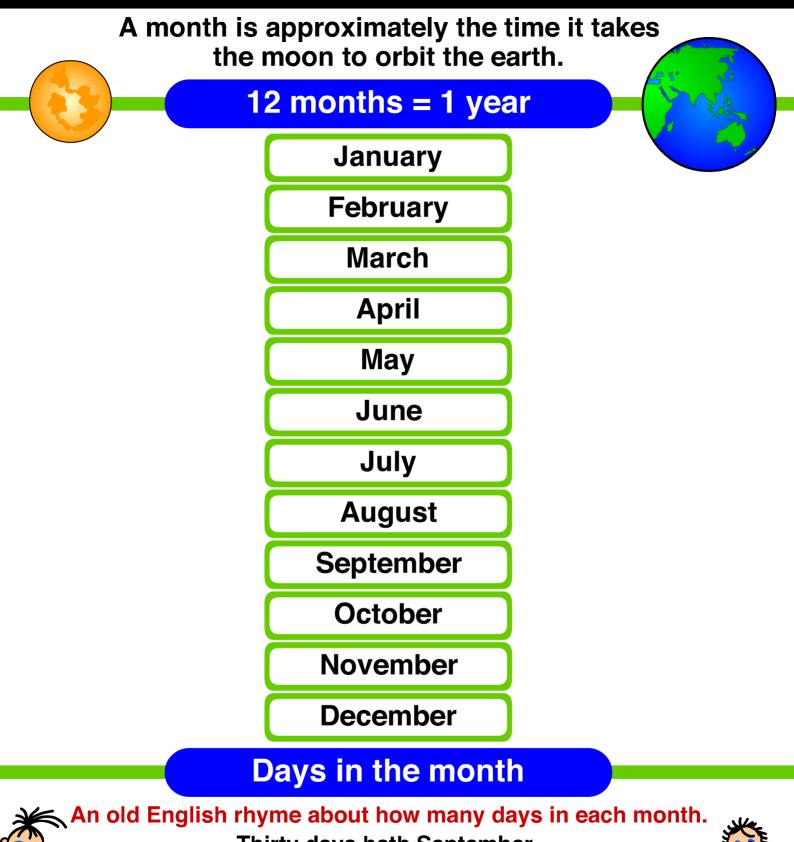
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Months of the year

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com



Thirty days hath September, April, June, and November; All the rest have thirty-one, Save February, with twenty-eight days clear, And twenty-nine each leap year.

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Seasons of the year

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A season is a period of the year based on changes in hours of daylight, temperature, weather and changes in nature. The northern hemisphere and the southern hemisphere have opposite seasons.

> Seasons occur because of the 23.5° tilt of the earth as it orbits the sun. Some parts of the earth are more exposed to the sun than others, depending on the time of year.

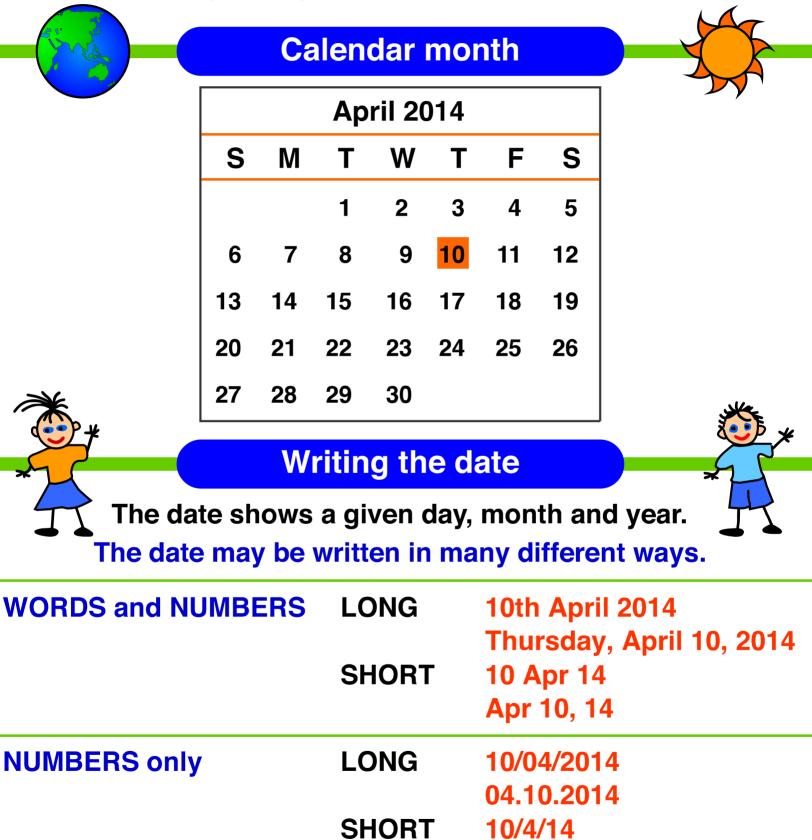
Calendars may use meteorological seasons based on temperature and other changes or astronomical seasons based on the earth's position in its orbit around the sun.

T Northern Hemisphere	he meteorol Summer Autumn Winter Spring	ogical seasons are: June, July, August September, October, November December, January, February March, April, May					
Southern Hemisphere	Summer Autumn Winter Spring	December, January, February March, April, May June, July, August September, October, November					
T Northern Hemisphere		nical seasons are: oxes and solstices, approximately: begins 21 June begins 22 September begins 21 December begins 20 March					
Tropical regions often have just two seasons, the dry season and the wet season and some south Asian nations and indigenous cultures have more than four seasons. © Jenny Eather. All rights reserved.							

Calendar and date

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A calendar is a table showing the year broken up into months, weeks and days. Many calendars show one month per page.



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4.10.14

Time facts

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

Time is the continuum from past to present to future. It is also the interval between two events or the duration of a single event.

Time is measured with clocks and other timing devices.

Time Measurement Units

1000 milliseconds = 1 second 60 seconds = 1 minute 60 minutes = 1 hour 24 hours = 1 day 7 days = 1 week 2 weeks = 1 fortnight 4 weeks = 1 month 12 months = 1 year 52 weeks = 1 year 365 days = 1 year 366 days = 1 leap year 10 years = 1 decade 100 years = 1 century 1000 years = 1 millennium

Global Timekeeping

Time is so important to human activity that timekeeping is coordinated at an international level using atomic clocks which are accurate to the nearest second over millions of years.

The Global Positioning System (GPS) is also used to synchronize timekeeping systems around the earth.

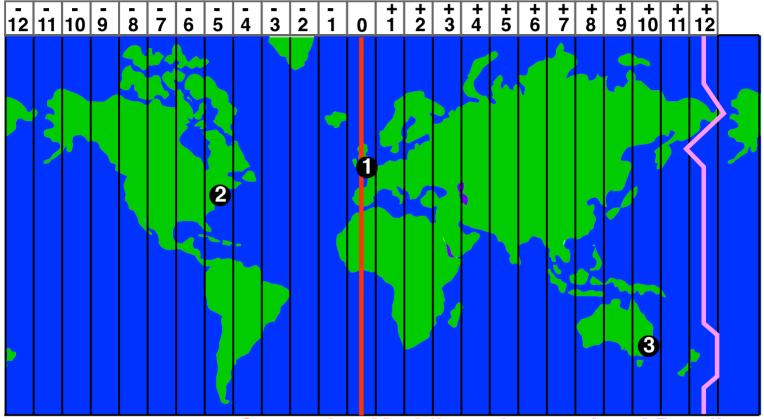
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Time zones

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

So countries around the world can have similar times during the day, different places on the Earth need to have different clock times.

Starting from the Greenwich or Prime Meridian (0° longitude), the world has been divided into 24 time zones based on Coordinated Universal Time (UTC).



Greenwich Meridian International Dateline

This is a very simple map. Many land time zone lines vary so that each country can have a manageable time system.

The use of daylight saving time in many countries also changes how many hours the time in one place differs from the time in another place.



London 12:00 noon 2 New York 7:00 a.m. 3 Sydney 10:00 p.m.

Australia is divided into three separate time zones:

- Australian Eastern Standard Time (AEST) = UTC +10,
- Australian Central Standard Time (ACST) = UTC + $9\frac{1}{2}$,
- Australian Western Standard Time (AWST) = UTC + 8.

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Timelines

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com A timeline displays a list of events in chronological order. 1922 **1922** Parliament passes the Sydney Harbour Bridge Act No. 28. A timeline of the **1923** Building tenders 1923 construction of the called for. Sydney Harbour Bridge. 28 July 1923 'Turning the first sod' ceremony at 1924 Milsons Point. abutments 24 March 1924 Building contract awarded to Dorman 1925 Long and Co Ltd of England. January 1925 Excavations for the abutments and 1926 approach spans begin. September 1928 Abutments and approach spans completed. 1927 creeper 26 October 1928 Arch crane construction begins, supported by cables. 1928 19 August 1930 The two halves of the arch touch for

the first time.

1930 Arches joined by rivets, cables removed.

Placing vertical hangers commences.

1931 Eight road lanes and

two sets of tram and railway tracks completed.

Building pylons on top of

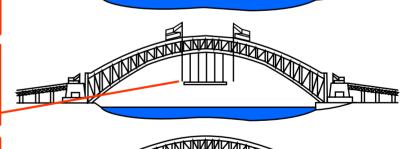
1929

1930

1931

1932

1933







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Timetables

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

A timetable is a chart showing events organised according to a time schedule.

Example: Pirate School

					- /			
Pirate School - Weekly Timetable								
	М	Т	W	Th	F			
9:00	Arrr! Arrr! Arrr! practice	Yo-ho-ho! practice	Shiver me timbers! practice	Crow's nest climbing	Landlubber spotting			
10:00	Parrot care and handling	Cutlass sharpening	Cannon loading	Pirate hat making	Eye patch design			
11:00	00 All hands on deck.							
11:15	Burying treasure	Sail hoisting	Jolly Roger design	Navigation nasties	Spyglass skills			
11:45	Bilge pumping duty	Cat o' nine tails swinging	Shanty singing	Beard trimming	Pirate legend telling			
12:30		All ha	ands on deck.					
1:00	Plank walking avoidance strategies	Hornpipes for beginners	Keelhauling avoidance strategies	Deck swabbing duties	Pieces of eight counting			
2:00	Sword fighting championship	Wooden leg carving	Treasure map making	Blunderbuss maintenance	Rum ration management			
3:00	All hands abandon ship.							
Beak Shark Lookout								



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Time conversions

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

Time is the continuum from past to present to future. It is also the interval between two events or the duration of a single event.

Convert - larger to smaller

larger to smaller ... multiplyExamples: years to months ... multiply by 12days to hours ... multiply by 24hours to minutes ... multiply by 60

Convert - smaller to larger

smaller to larger ... divide

Examples:

months to years ... divide by 12 hours to days ... divide by 24

minutes to hours ... divide by 60

NOTE:

Often the remainder is still written as the smaller unit. Examples: 2 yrs 5 mths



2 yrs 5 mths 2 days 5 hrs 11 hrs 46 mins

Units



1000 milliseconds = 1 second
60 seconds = 1 minute
60 minutes = 1 hour
24 hours = 1 day
7 days = 1 week
2 weeks = 1 fortnight
4 weeks = 1 month12 months = 1 year
52 weeks = 1 year
365 days = 1 year
366 days = 1 leap year
10 years = 1 decade
100 years = 1 century
1000 years = 1 millennium

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