

YR4 Knowledge Organiser - Time

Key Concepts

- Read, write and convert time between analogue and digital 12-hour and 24-hour clocks
- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Key Vocabulary

- analogue / digital
- convert
- duration
- 12-hour / 24-hour clock
- hour / minute / second
- day / week / month / year



Hours, Minutes and Seconds

There are 60 seconds in one minute and 60 minutes in one hour. We can use this knowledge to convert different units of time.



"I went on a bike ride with my friend for 3 hours."

$3 \times 60 = 180$ so Alfie and his friend were cycling for 180 minutes.

Once we can convert between different units of time, we can compare durations of time.

140 seconds

$$140 \div 60 = 2 \text{ r } 20$$

2 minutes and 20 seconds

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1 minute and 48 seconds

$$1 \times 60 = 60 \text{ and } 60 + 48 = 108$$

108 seconds

Days, Weeks, Months and Years

There are 7 days in a week.

There are 28 days in February, and 29 in a leap year. April, June, September and November have 30 days. All other months have 31 days.

There are 365 days in a year, and 366 in a leap year. There are 12 months in a year.

We can use this knowledge to convert between different units of time.



"I have been taking swimming lessons for 50 months."



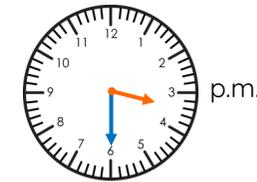
"I have been taking swimming lessons for 3 years and 10 months."

$50 \div 12 = 4 \text{ r } 2$ so Darcey has been swimming for 4 years and 2 months.

$3 \times 12 = 36$ and $36 + 10 = 46$ so Jerry has been swimming for 46 months.

Analogue and Digital Time

When reading and writing time on 12-hour clocks, we need to use a.m. and p.m. to determine if they are happening in the morning or afternoon.



Times on digital clocks are written in a 4-digit format. The hour is shown by the first 2 digits and the minutes are shown by the second 2 digits.

When reading and writing time on 24-hour clocks, we do not need to use a.m. and p.m. to determine if they are happening in the morning or afternoon.

Half past 3 in the afternoon



From 1pm onwards, we add 12 to the number of hours.

1	2	3	4	5	6	7	8	9	10	11
13	14	15	16	17	18	19	20	21	22	23

At midnight, 24-hour time resets to 00:00.

