




MATHS KNOWLEDGE ORGANISER

ESSENTIAL VOCABULARY	
Time	A measure of how long something takes.
Clock	Something that measures time.
Hours	A particular time of day within 24 hours.
Minutes	A measure of time within an hour.
Hands	There point to numbers on a clock to indicate what time it is.
O clock	When the hour hand points at the 12.
Half past	When the hour hand points at 6 and the minute hand half way between the number of the hour.
Quarter past	When the hour hand points at the 3 and the minute hand at the number of the hour.
Quarter to	When the hour hand points at the 9 and the minute hand at the number to the next hour.
Duration	How long something takes.

O'Clock




It takes one hour for the **hour hand** to turn from the number showing this hour and the number showing the next hour.

It takes the **minute hand** an hour to make a whole turn around the clock.

1 o'clock

Half Past

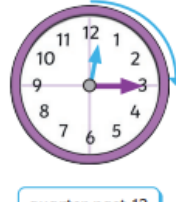


It takes half an hour for the **hour hand** to turn halfway between the number showing this hour and the number showing the next hour.

It takes half an hour for the **minute hand** to turn halfway around the clock.

half past 12

Quarter Past




It takes a quarter of an hour for the **hour hand** to turn a quarter of the way between the number showing this hour and the number showing the next hour.

It takes a quarter of an hour for the **minute hand** to turn a quarter of the way around the clock.

quarter past 12

Quarter To

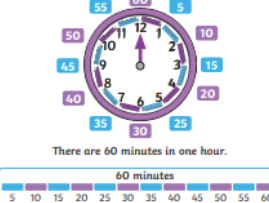


It will take the **hour hand** a quarter of an hour to reach the number representing the next hour.

It will take the **minute hand** a quarter of an hour to begin the new hour.

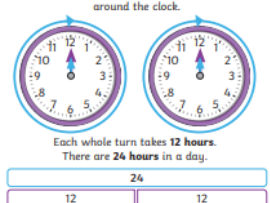
quarter to 1

Minutes in an Hour



There are 60 minutes in one hour.

Hours in a Day

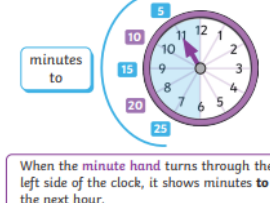


Each day, the hour hand makes 2 full turns around the clock.

Each whole turn takes 12 hours.

There are 24 hours in a day.

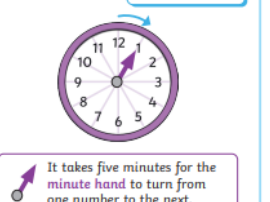
5 Minute Intervals to the Hour



minutes to

When the minute hand turns through the left side of the clock, it shows minutes to the next hour.

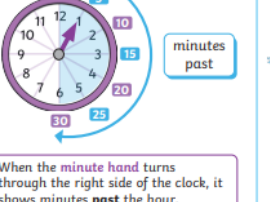
5 Minute Intervals



5 minutes

It takes five minutes for the **minute hand** to turn from one number to the next.

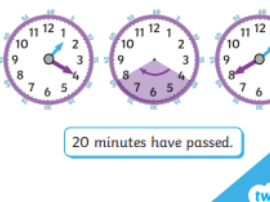
5 Minute Intervals past the Hour



minutes past

When the minute hand turns through the right side of the clock, it shows minutes past the hour.

Find Durations of Time



Start Duration End

20 minutes have passed.

Stem Sentences

In 1 hour there is Minutes.
 In ½ an hour there is.....minutes.
 In ¼ of an hour there isminutes.

National Curriculum Links

Tell and write the time to five minutes, including quarter past / to the hour and draw the hands on a clock face to show these times .

Maths Mastery


1 🚩

Match the time statements.

15 minutes 1 hour
 60 minutes quarter of an hour
 30 minutes half an hour

2 🚩


Which time is shown by the clock?

A) 1:15 
 B) 2:15
 C) 3:15

How do you know?

3 🚩

Which of these clocks show times between 7:30 and 8:30?



4 🚩

Put these clock times in order.

