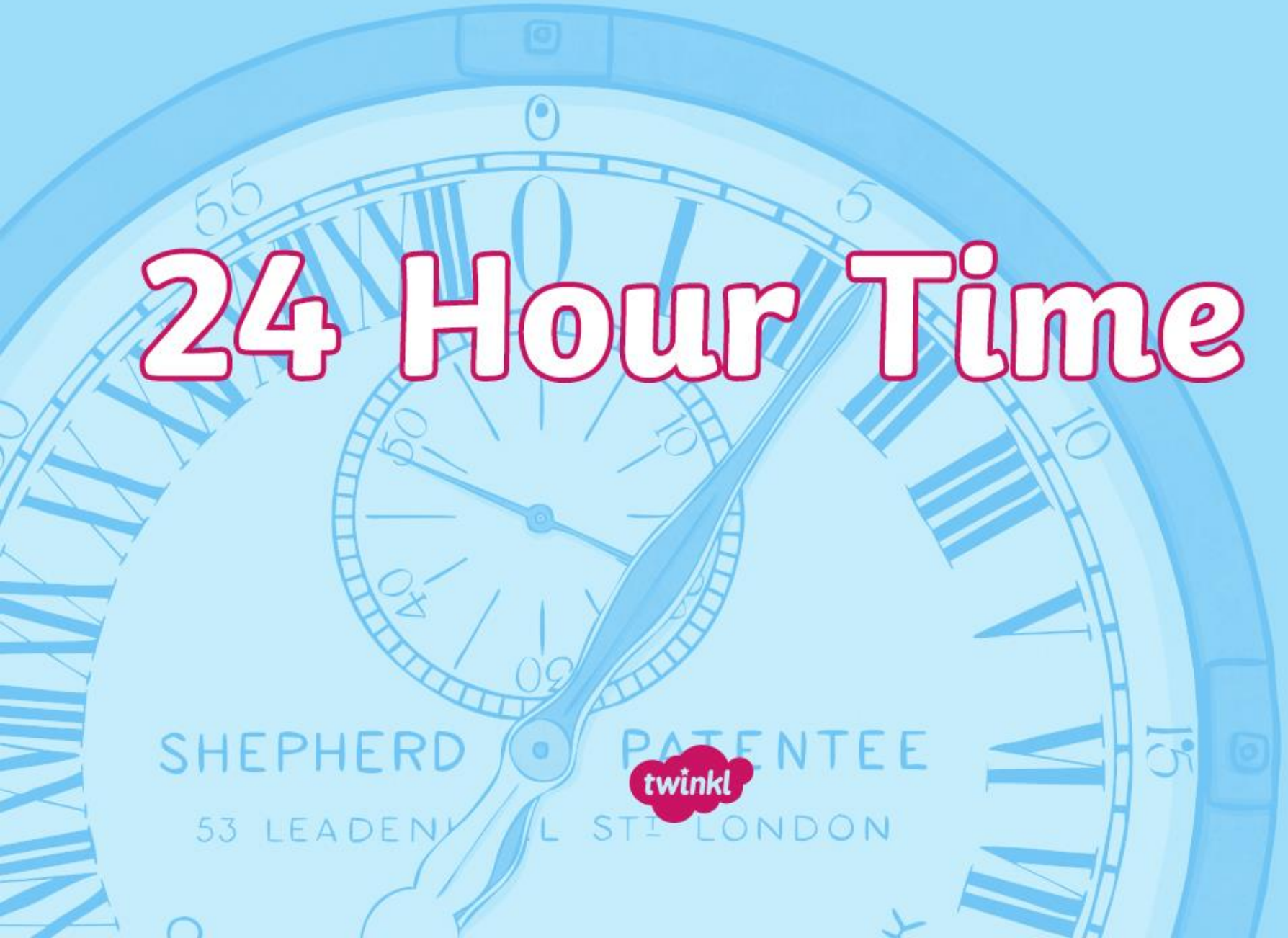
# 24 Hour Time

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# The 24 Hour Day

A day has 24 hours. A clock has 12 hours.
This means each time will happen twice every day.

half past 2 in the morning

half past 2 in the afternoon

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# a.m. and p.m.

We have to use a way to write these times differently. One way is to use a.m. and p.m.

| a.m. (ante meridiem – before noon) | p.m. (post meridiem – after noon) |
| --- | --- |
| | |
| 2:30 a.m. | 2:30 p.m. |

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# The 24 Hour Clock

Another way is to use a 24 hour clock.
This means the hours after 12 noon are converted to 13:00 to 23:00.

2:30

14:30

A 4 digit format is used. 2 digits for the hour, a colon (:) and 2 for the minutes.

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# 24 Hour Hours

This clock and table show the corresponding hours on a 24 hour clock.

| | |
|---|---|
| 0:00 = 12:00 AM | 12:00 = 12:00 PM |
| 01:00 = 1:00 AM | 13:00 = 1:00 PM |
| 02:00 = 2:00 AM | 14:00 = 2:00 PM |
| 03:00 = 3:00 AM | 15:00 = 3:00 PM |
| 04:00 = 4:00 AM | 16:00 = 4:00 PM |
| 05:00 = 5:00 AM | 17:00 = 5:00 PM |
| 06:00 = 6:00 AM | 18:00 = 6:00 PM |
| 07:00 = 7:00 AM | 19:00 = 7:00 PM |
| 08:00 = 8:00 AM | 20:00 = 8:00 PM |
| 09:00 = 9:00 AM | 21:00 = 9:00 PM |
| 10:00 = 10:00 AM | 22:00 = 10:00 PM |
| 11:00 = 11:00 AM | 23:00 = 11:00 PM |

Midnight is referred to as 00:00

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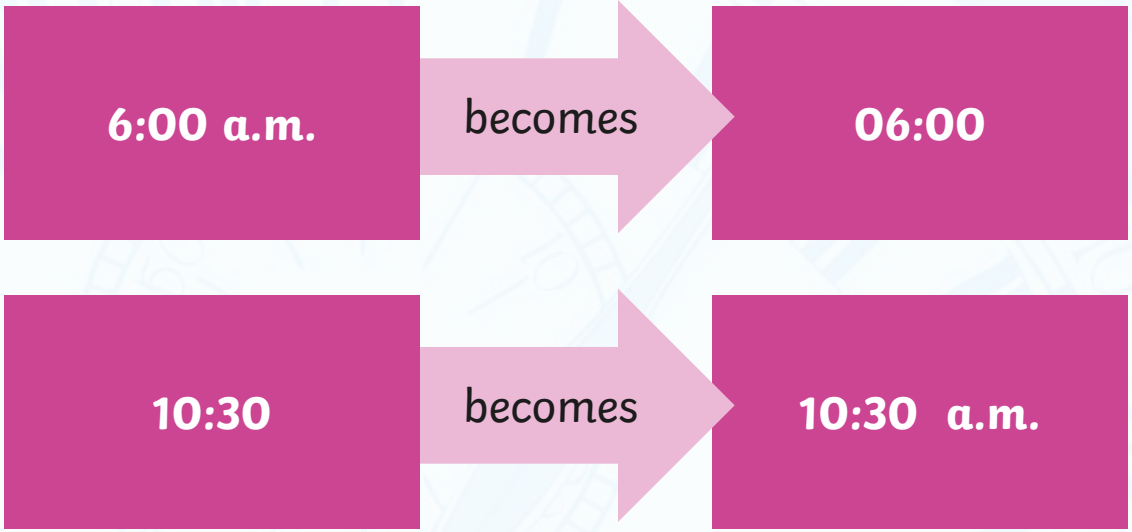
# 24 Hour Time in the Morning

To convert between 12 and 24 hour time in the morning change the format.




The hours stay the same.

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# 24 Hour Time in the Afternoon

To convert between 12 and 24 hour time in the afternoon add or subtract 12 hours and change the format.

6:00 p.m. becomes 18:00

22:30 becomes 10:30 p.m.

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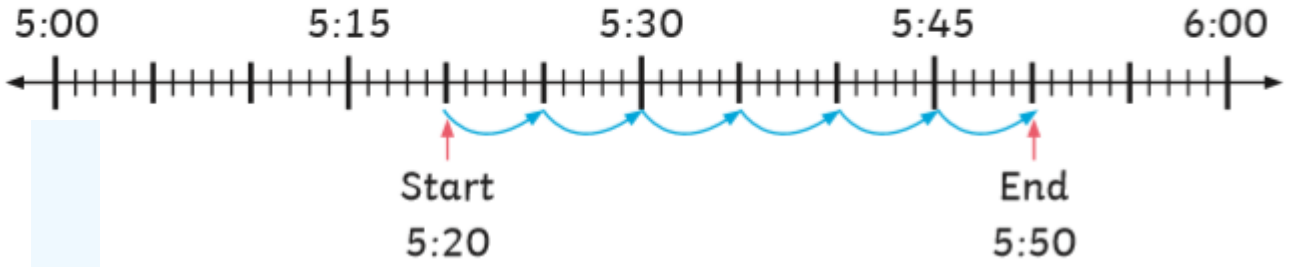
The next 3 pages are your work for today.

Write the questions and answers in your book or print out the sheets to write on.

For the final reasoning question show your workings on a time line like the question below.

Danny starts watching cartoons at 5:20 p.m. They last for 30 minutes.
What time does he stop watching cartoons?

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# Convert 12 to 24 hour

Convert these times to 24 hour time - – don't forget that there needs to be 4 digits in each time with the colon inbetween.

| 12 hour time | 24 hour time |
|---|---|
| 2:45 a.m. | |
| 10:20 a.m. | |
| 1:55 p.m. | |
| 3:05 p.m. | |
| 5:35 p.m. | |
| 8:40 p.m. | |
| 11:25 p.m. | |

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# Convert 24 to 12 hour

Convert these times to 12 hour time – don't forget to add a.m. or p.m. so we know what time of the day it is!

| 24 hour time | 12 hour time |
| --- | --- |
| 03:15 | |
| 11:15 | |
| 14:45 | |
| 16:20 | |
| 18:55 | |
| 21:05 | |
| 22:35 | |

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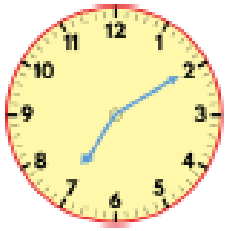
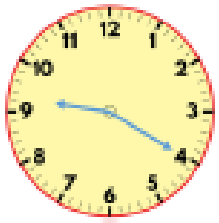
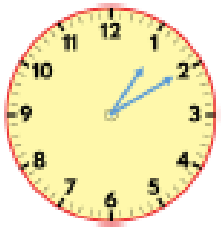
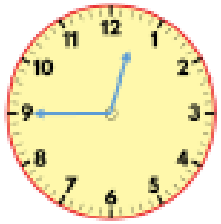
Match the analogue and digital times.

AM 

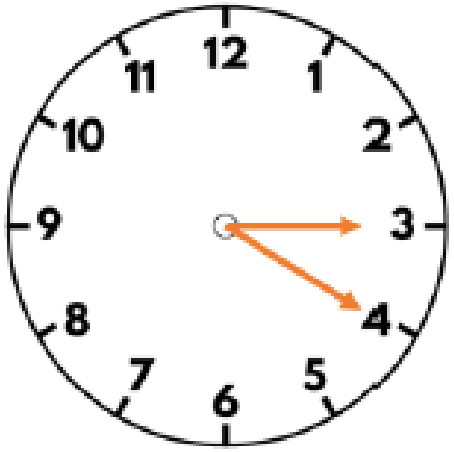
PM 

PM 

AM 

| 13 : 10 | 07 : 10 | 00 : 45 | 21 : 20 |
|---|---|---|---|

Sally leaves school at the time shown.
She arrives at the swimming pool 40 minutes later and has a 1 hour swimming lesson.
She arrives home 50 minutes later.
Show what time Sally gets home in 24 hour digital format.

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Only go past this point when you have completed your tasks to check your answers.

Mark your own work once you have finished

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# Convert 12 to 24 hour

Answers

| 12 hour time | 24 hour time |
|---|---|
| 2:45 a.m. | 02:45 |
| 10:20 a.m. | 10:20 |
| 1:55 p.m. | 13:55 |
| 3:05 p.m. | 15:05 |
| 5:35 p.m. | 17:35 |
| 8:40 p.m. | 20:40 |
| 11:25 p.m. | 23:25 |

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# Convert 24 to 12 hour

Answers

| 24 hour time | 12 hour time |
|---|---|
| 03:15 | 3:15 a.m. |
| 11:15 | 11:15 a.m. |
| 14:45 | 2:45 p.m. |
| 16:20 | 4:20 p.m. |
| 18:55 | 6:55 p.m. |
| 21:05 | 9:05 p.m. |
| 22:35 | 10:35 p.m. |

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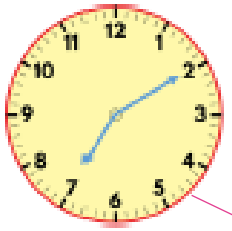
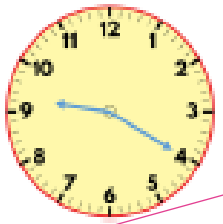
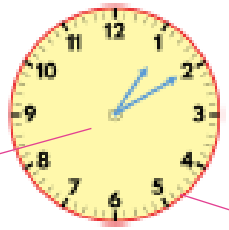
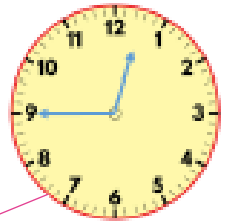
Match the analogue and digital times.

AM 

PM 

PM 

AM 

13 : 10

07 : 10

00 : 45

21 : 20

Sally leaves school at the time shown.
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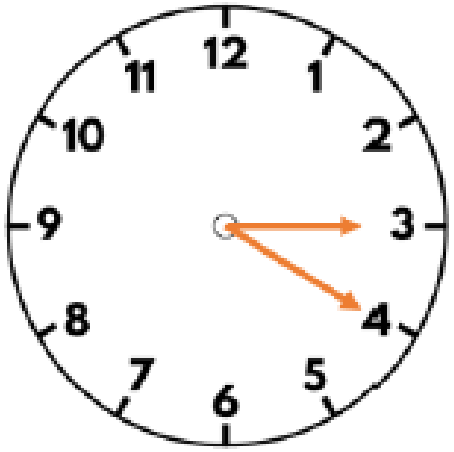
She arrives home 50 minutes later.
Show what time Sally gets home in 24 hour digital format.



**Sally arrives home at 17:50**

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