

Monday Maths

L.O. To tell the time on a 24-hour digital clock

Spend time looking at analogue and digital clocks at various times throughout the day, in order to compare what is the same and what is different.

Mathematical Talk

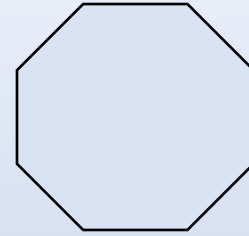
Using the 12-hour clock, is the time an a.m. or a p.m. time?

What will the number representing the hour be in 24-hour clock time? How do you know if it will be less than 12 or more than 12?

What will the minutes be in 24-hour time? Where can you count from? When does the number of minutes become 0 again on a 24-hour clock display?

Flashback: How much can you remember?

1) What time is 3 and a quarter hours after 11am?



2) Which is longer, 2 years or 700 days?

3) Complete the number line.



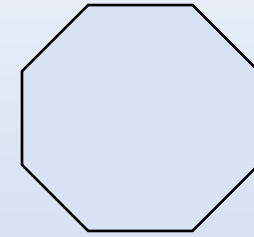
4) Which lengths can be used to make a total of 60 cm?

19 cm, 21 cm, 20 cm, 35 cm, 15 cm

Flashback: Answers

1) What time is 3 and a quarter hours after 11am?

2:15pm



2) Which is longer, 2 years or 700 days?

2 years

3) Complete the number line.



4) Which lengths can be used to make a total of 60 cm?

19 cm, 21 cm, 20 cm, 35 cm, 15 cm 19 cm, 21 cm, 20 cm



Why do we need a 24 hour digital clock?

There can be no mix-up between 5am and 5pm for example, because there is no '**am**' or '**pm**', there is only 0500 **hours** and 1700 **hours**.

The 24 hour digital clock is very useful particularly when travelling.

Watch this video to learn more:

<https://www.youtube.com/watch?v=Lj4YxVZWLVU>

YOUR TASK:

Create a diary using pictures to show your day from waking up to going to bed. Label these events using both 12-hour clock and 24-hour clock times.

1

06:15	13:07	09:29	19:53	21:40
01:36	15:19	04:42	08:00	20:00

b) Kim gets up at 8:00 am.

Which of the times from the table is this? _____

c) Scott goes to bed at 8:00 pm.

Which of the times from the table is this? _____

2

Match the times.

6:15 am

6:15 pm

4:15 pm

2:15 pm

2:15 am

02:15

16:15

18:15

14:15

06:15

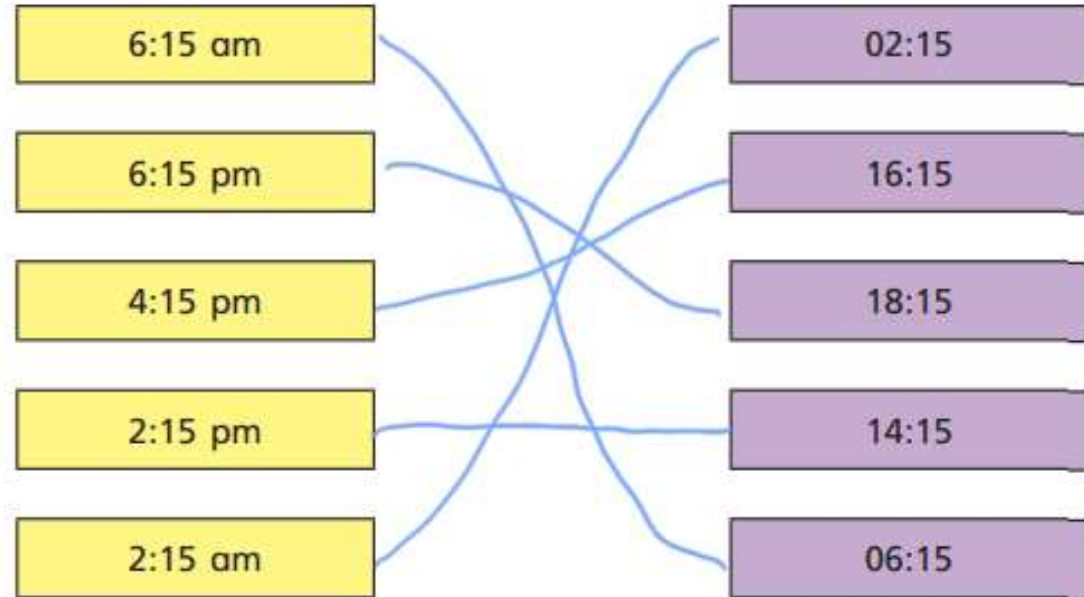
Kim gets up at 8:00 am.

Which of the times from the table is this? 08:00

Scott goes to bed at 8:00 pm.

Which of the times from the table is this? 20:00

2 Match the times.



Match the times to the clocks showing the same time.

9 o'clock in the morning



19:15

Half past 3 in the afternoon



09:00

Quarter past 7 in the evening

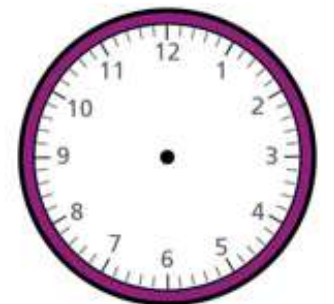


15:30

b)



I will go to bed at 8:00 pm.



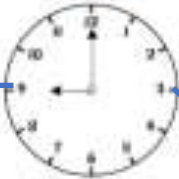
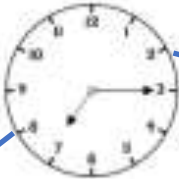
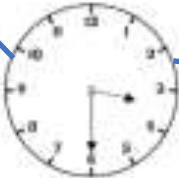
Show this time on each clock.

Use 24-hour time on the digital clock.

What is the same about your answers to parts a) and b)?

What is different?

Match the times to the clocks showing the same time.

9 o'clock in the morning		19:15
Half past 3 in the afternoon		09:00
Quarter past 7 in the evening		15:30

b)



I will go to bed at 8:00 pm.



Show this time on each clock.
Use 24-hour time on the digital clock.



True or False ?

24-hour clock

This 24-hour clock means it is
15 minutes past 8

15:20

True or False?

24-hour clock

False

This 24-hour clock means it is
20 minutes past 3

15:20

Challenge:

Dexter wants to watch a programme at 6:00 pm.
He looks at his clock and it shows this time.



Oh no!
It is 10 past 7,
I have missed it.

Is Dexter correct? _____ Because.....

Write the times as 24-hour clock times.

- | | |
|------------------|------------------|
| a) 3:27 am _____ | b) 3:27 pm _____ |
| 2:27 am _____ | 4:27 pm _____ |
| 1:27 am _____ | 5:27 pm _____ |
| 12:27 am _____ | 6:27 pm _____ |

Challenge Answers:

Dexter wants to watch a programme at 6:00 pm.

He looks at his clock and it shows this time.

17:10



Oh no!
It is 10 past 7,
I have missed it.

Is Dexter correct? No

Write the times as 24-hour clock times.

a) 3:27 am 03:27

2:27 am 02:27

1:27 am 01:27

12:27 am 00:27

b) 3:27 pm 15:27

4:27 pm 16:27

5:27 pm 17:27

6:27 pm 18:27