

Thursday Maths

L.O. To find start and end times to the nearest minute.

Practice finding start/end times by moving hands on a clock. For example, If playtime starts at five past ten and lasts for 20 minutes, what time will playtime end? A fifty minute maths lesson finishes at 10.15. What time does the lesson start?

Mathematical Talk

Which hand do you need to move?

Do you need to move the hand clockwise or anti-clockwise?

What time should the number line start at?

Will you jump forwards or backwards?

How many intervals will you break the duration into?

Would a part-whole model help?

Flashback: How much can you remember?

1) What time is 3 hours before 13:00?

2) How many times per day does a clock show half past 7?

3) Complete $\frac{4}{10} + \frac{3}{10} + \frac{9}{10} = \frac{9}{10}$

4) 2 m and 25 cm — 125 cm = m



Flashback: Answers

1) What time is 3 hours before 13:00?

10:00 or 10 am

2) How many times per day does a clock show half past 7?

Twice

3) Complete $\frac{2}{10} + \frac{4}{10} + \frac{3}{10} = \frac{9}{10}$

4) 2 m and 25 cm - 125 cm = m



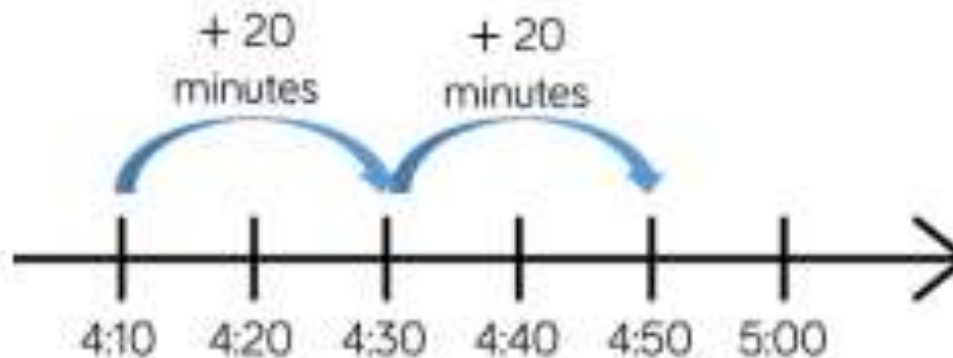


A 40 minute TV programme starts at the time shown. What time does it finish?

We can use a number line to work out the end time.

Use this method to work out:

- The end time of a 25 minute lesson starting at 2.15 p.m.
- The start time if a 1 hour 10 minute journey ended at 4 o'clock.



Use a number line to help you with these questions. You may even want to use a part-whole model to help split longer intervals.

- 1 Brett gets home from school at this time in the afternoon.



He wants to watch a cartoon at 4:00 pm.

- a) How long does Brett have to wait for the cartoon to start?

minutes

- b) The cartoon lasts for 25 minutes. What time will it finish?
Give your answer as a 24-hour clock time.

- 2 Nijah has football practice at 16:10
It lasts for 45 minutes.

- a) What time will it finish?
Give your answer as a 24-hour clock time.

- b) It takes Nijah 15 minutes to get home.
What time will she get home?
Give your answer as a 24-hour clock time.

- 3 The table shows the duration of some lessons at school.

| Lesson | Duration |
|---------|------------|
| Maths | 50 minutes |
| Phonics | 30 minutes |
| Science | 45 minutes |
| English | 55 minutes |

- a) Maths starts at 09:15
What time does it finish?

- b) Science starts at 13:30
What time does it finish?

- c) Phonics finishes at 10:50
What time does it start?

- d) English finishes at 15:10
What time does it start?

- 1 Brett gets home from school at this time in the afternoon.



He wants to watch a cartoon at 4:00 pm.

- a) How long does Brett have to wait for the cartoon to start?

18 minutes

- b) The cartoon lasts for 25 minutes. What time will it finish?
Give your answer as a 24-hour clock time.

16:25

- 2 Nijah has football practice at 16:10
It lasts for 45 minutes.

- a) What time will it finish?
Give your answer as a 24-hour clock time.

16:55

- b) It takes Nijah 15 minutes to get home.

What time will she get home?

Give your answer as a 24-hour clock time.

17:10

- 3 The table shows the duration of some lessons at school.

| Lesson | Duration |
|---------|------------|
| Maths | 50 minutes |
| Phonics | 30 minutes |
| Science | 45 minutes |
| English | 55 minutes |

- a) Maths starts at 09:15

What time does it finish?

10:05

- b) Science starts at 13:30

What time does it finish?

14:15

- c) Phonics finishes at 10:50

What time does it start?

10:20

- d) English finishes at 15:10

What time does it start?

14:15

True or False ?

Start and end times

The bus ride home is 75 minutes.
If I get on the bus at 12:25, I will arrive
at 13:00

False

The bus ride home is
75 minutes or 1 hour and 15 minutes.

If I get on the bus at 12:25,

I will arrive at 13:40

Challenge:



School ends in 45 minutes.
What time will it be?

Amir says,



It's 20 minutes to 3
o'clock, so school
finishes at 3:25 p.m.

Whitney says,



School ends at 2:85

Who do you agree with?
Explain why.

Tommy is halfway through watching his favourite TV programme. He looks at his watch and it shows this time.

15:45

The show is less than 1 hour long.

What could the start and end time be?

How many different start and end times
can you find?

Challenge **Answers:**

I agree with Amir, because Whitney has not remembered that there are 60 minutes in an hour and has added 45 minutes to 2:40 Children may use a number line to prove Amir is correct.

Possible answers include:

Start at 15.20 and end at 16.10

Start at 15.25 and end at 16.05

Start at 15.30 and end at 16.00

Start at 15.35 and end at 15.55

Start at 15.40 and end at 15.50