

# Tuesday Maths

L.O. To find the duration of events

Try to use real life events throughout the day. The duration of breakfast, riding your bike, playing a game etc. The more practice the better!

## Mathematical Talk

When did \_\_\_\_ start, and when did it finish?

How many hours/minutes is a full turn of the minute hand around the clock?

Do we need to count each individual minute?

How else could you break down the duration to make it easier to count?

## Flashback: How much can you remember?

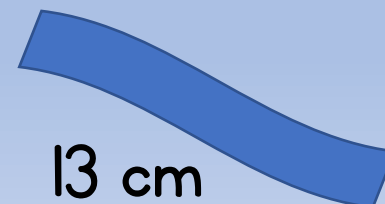
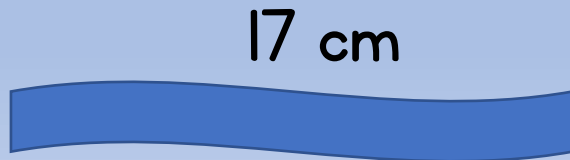
1) What time is 2 hours and 30 minutes before 6pm?

2) What day is 5 days after Saturday?

3) Order these fractions from smallest to largest.

$$\frac{2}{7}, \frac{2}{3}, \frac{1}{7}$$

4) Here are three ribbons, what is the total length of the ribbons?

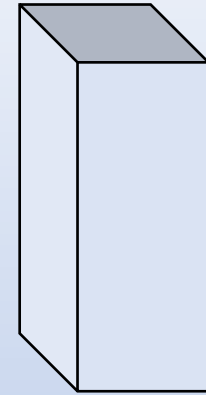


## Flashback: Answers

1) What time is 2 hours and 30 minutes before 6pm?

3:30pm

2) What day is 5 days after Saturday? Thursday

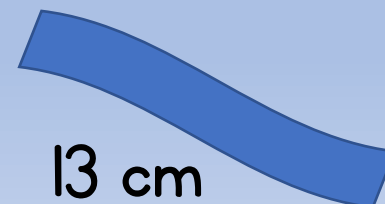
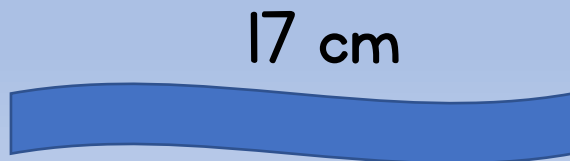


3) Order these fractions from smallest to largest.

$$\frac{2}{7}, \frac{2}{3}, \frac{1}{7}$$

$$\frac{1}{7}, \frac{2}{7}, \frac{2}{3}$$

4) Here are three ribbons, what is the total length of the ribbons?



34 cm

Watch this video to help give you the skills to find out the duration of events.

<https://www.youtube.com/watch?v=e1l56frbqZE>

Children should explore the most efficient ways of breaking the time down in order to work out the duration. For example: half hours, quarter of an hour and five minutes.

Use clock faces to help work out durations and encourage the use of number lines if they need more support adding on.



- 1 The table shows the start and finish times of some after-school clubs.

Club	Start time	Finish time
Drama	15:30	18:30
Art	15:30	16:30
Rowing	15:45	17:45

- a) How long does Drama club last?

Drama club lasts  hours.

- b) How long does Rowing club last?

Rowing club lasts  minutes.

- 2 The clocks show the start and finish times of some activities. Work out the duration of each.

a)



start

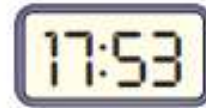


finish

b)



start



finish

c)



start

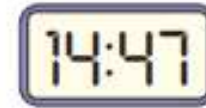


finish

d)



start



finish



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a) How long does Drama club last?

Drama club lasts  hours.

b) How long does Rowing club last?

Rowing club lasts  minutes.

2 The clocks show the start and finish times of some activities.

Work out the duration of each.

a)



start



finish

minutes

b)



start



finish

minutes

c)



start



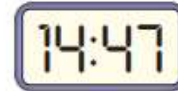
finish

minutes

d)



start



finish

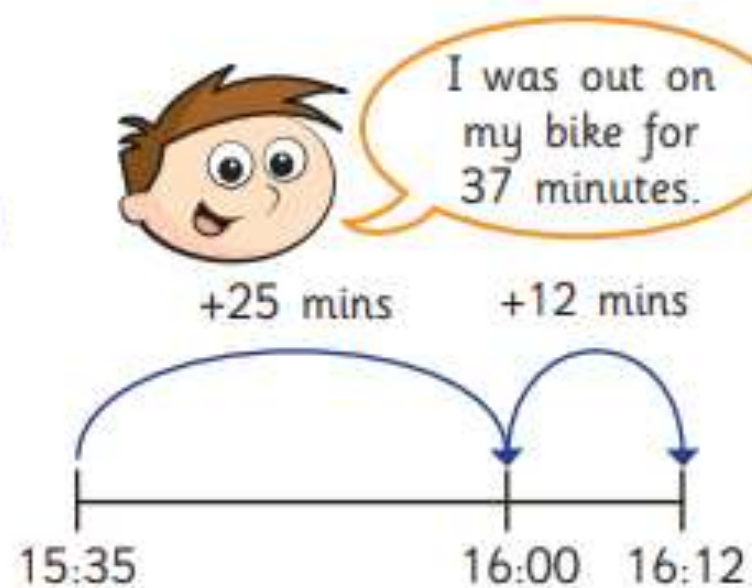
minutes

- 3** Teddy went out on his bike at 15:35 and got home at 16:12. He wants to work out how long he was on his bike.

Here are his workings.

Do you agree with Teddy?

Talk about it with a partner.



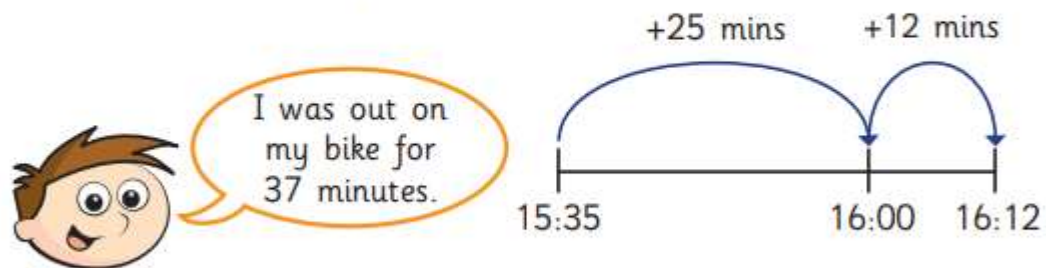
- 4** Work out the durations in minutes.

Use number lines to help you.

a) From 07:35 to 08:21

b) From 09:25 to 10:23

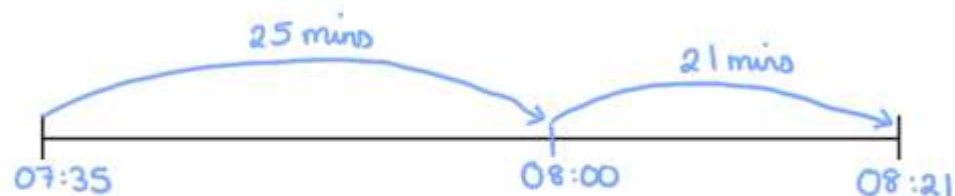
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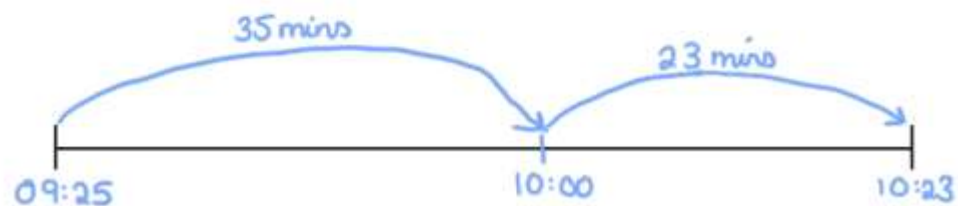
Do you agree with Teddy? yes WHY!?!?!

- 4 Work out the durations in minutes. Use the number lines to help you.

a) From 07:35 to 08:21 is 46 minutes.



b) From 09:25 to 10:23 is 58 minutes.





# True or False ?

Finding the duration

You can only measure time in  
hours or minutes.

# True or False ?

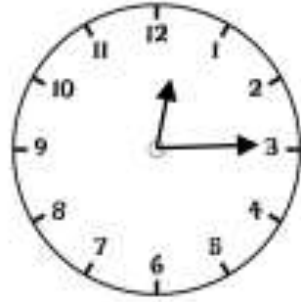
Finding the duration

False

You can measure time in many ways. For example days, weeks, hours, half hours, quarter of an hour, minutes and seconds.

# Challenge:

Lunchtime begins at:



Lunchtime ends at:



Teddy and Rosie are working out how long lunchtime lasts for.



Teddy

I did three quarters  
of an hour then  
added 10

I did 1 hour take  
away 5 minutes



Rosie

Whose method is correct?

## Challenge Answers:

Both children's methods are correct. Teddy has found the duration by  $15 + 15 + 15 + 10 = 55$  minutes. Rosie has found the duration by noticing that one hour after the start of lunch it will be 1:15, so she needs to take 5 minutes from 1 hour to also give 55 minutes.