

Wednesday Maths

L.O. To compare duration of times.

Try to use real life events throughout the day. The duration of breakfast compared to the duration of dinner – Which took the longest? How much longer was it? The more practice the better!

Mathematical Talk

Which is the longest amount of time?

Which is the shortest amount of time?

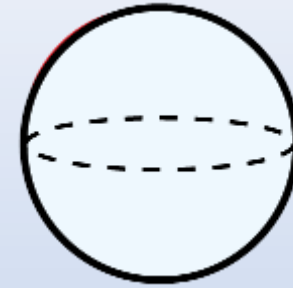
Is _____ longer or shorter than _____?

How much longer was _____?

How much shorter was _____?

Flashback: How much can you remember?

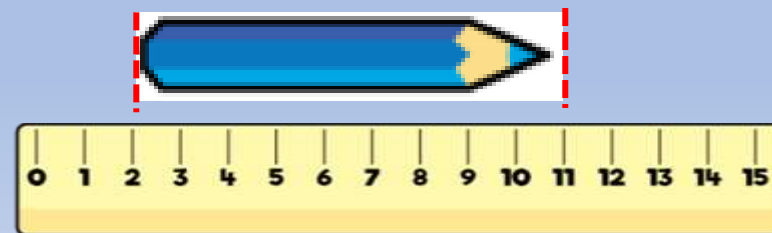
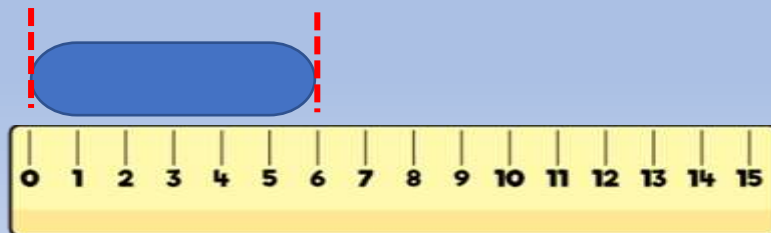
1) Write eight thirty in the afternoon using the 24 hour clock.



2) If I start school at 8:30 am and finish at 3:15 pm, how many hours am I at school?

3) Which is larger, 2 thirds or 4 sixths?

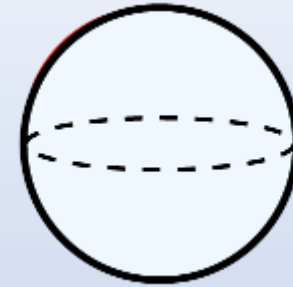
4) How much shorter is the rubber than the pencil?



Flashback: Answers

1) Write eight thirty in the afternoon using the 24 hour clock.

20:30



2) If I start school at 8:30 am and finish at 3:15 pm, how many hours am I at school?

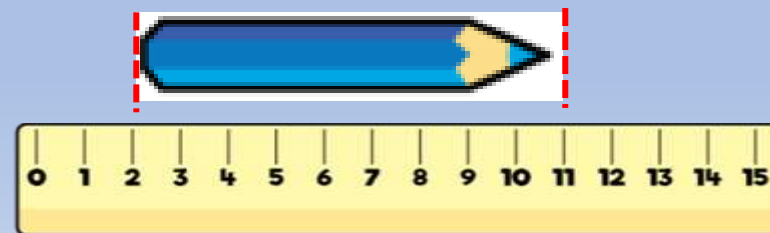
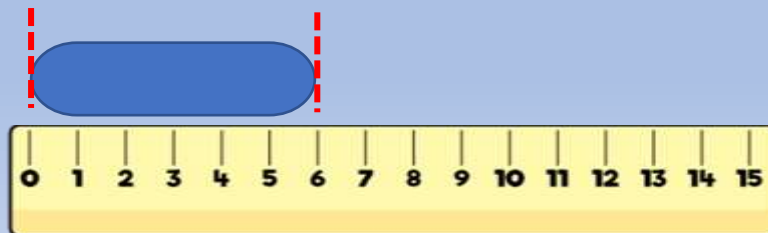
6 hours 45 minutes

3) Which is larger, 2 thirds or 4 sixths?

They are equal

4) How much shorter is the rubber than the pencil?

3 cm



Children should compare durations of time using analogue and digital clocks. They could use empty number lines to model the situations as these will assist with bridging over hours. They should use their knowledge of addition and subtraction, and know that there are 60 minutes in an hour, to compare the length of time taken by particular events or tasks.



The timetable shows Huan's morning at school.

09:00 – 10:00	Maths
10:00 – 10:15	Break
10:15 – 10:30	Phonics
10:30 – 11:15	Guided reading
11:15 – 12:00	English

a) What is Huan's longest lesson in the morning?

How do you know?

b) What is Huan's shortest lesson in the morning?

How do you know?

c) Which two lessons are the same length?

How do you know?

d) How much longer is Huan's Maths lesson than his Phonics lesson?

minutes

- Answers for question 1.
- a) Maths
 - b) Phonics
 - c) Guided Reading and English
 - d) 45minutes

2 Annie and Amir both went to the park on Saturday.

a)

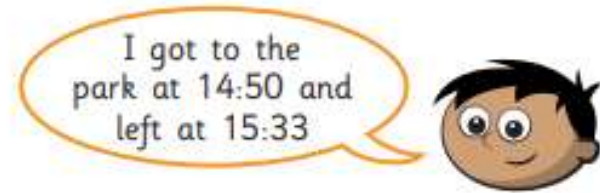


I got to the park at 12:30 and left at 13:07

How long did Annie spend at the park?

minutes

b)



I got to the park at 14:50 and left at 15:33

How long did Amir spend at the park?

minutes

c) Who spent longer at the park? _____

How much longer did they spend there?

minutes

3

Write <, > or = to compare the durations.

a) 09:00 – 10:15 09:10 – 10:15

b) 19:00 – 20:15 18:50 – 20:10

c) 08:56 – 09:15 08:36 – 08:55

d) 17:51 – 18:34 17:43 – 18:20

e) 13:05 – 14:22 07:16 – 08:09

f) 12:21 – 15:16 14:01 – 17:01

- 4 The table shows some information about bus journeys from the station to town.



Bus	Leaves station	Arrives town
A	09:15	10:00
B	10:04	10:42
C	10:37	11:34
D	11:12	12:25

a)



I know which bus journey was the longest without working out the durations.

How does Eva know this? Talk about it with a partner.

- b) Which bus has the shortest journey time from the station to the town?

Bus _____

Answers:

2 Annie and Amir both went to the park on Saturday.

a)



I got to the park at 12:30 and left at 13:07

How long did Annie spend at the park?

37 minutes

b)

I got to the park at 14:50 and left at 15:33



How long did Amir spend at the park?

43 minutes

c) Who spent longer at the park? Amir

How much longer did they spend there?

6 minutes

3 Write $<$, $>$ or $=$ to compare the durations.

a) 09:00 – 10:15 $>$ 09:10 – 10:15

b) 19:00 – 20:15 $<$ 18:50 – 20:10


c) 08:56 – 09:15 $=$ 08:36 – 08:55

d) 17:51 – 18:34 $>$ 17:43 – 18:20

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a)



I know which bus journey was the longest without working out the durations.

How does Eva know this? Talk about it with a partner.

b) Which bus has the shortest journey time from the station to the town?

Bus B

True or False ?

Comparing the duration

The football match was longer than the time it took to drive to the game.



	Start time	Finish time
Drive	9:05	10:25
Football match	11:25	13:05

True or False ?

Comparing the duration

True

The football match was 20 minutes longer than the time it took to drive to the game.

	Start time	Finish time	Duration
Drive	9:05	10:25	80 minutes
Football match	11:25	13:05	100 minutes

Challenge:

Eva and Mo are having a race.
It takes Eva 3 and a half minutes to complete the race.
It takes Mo 3 minutes and 15 seconds.

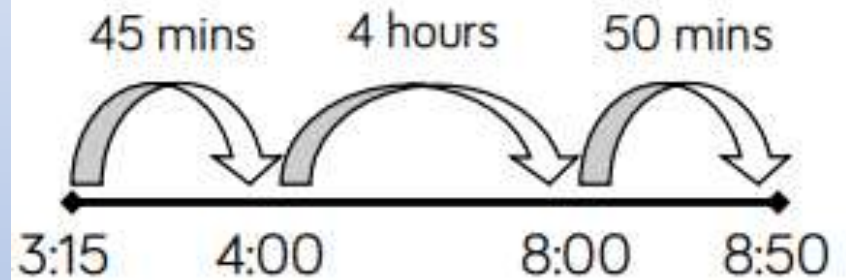


I won because I got a higher time.

Is Eva correct?
Explain how you know.

Jack's school starts at ten to 9 and finishes at quarter past 3

He uses the number line to calculate how long the school day is.



Jack works out the school day is 5 hours and 35 minutes long.
Jack is incorrect.

Explain his mistake.

Challenge **Answers:**

Eva is incorrect. Eva took longer to finish the race therefore she finished after Mo. The winner of a race is the person who finishes in the shortest amount of time.

Jack has worked out the time from 3:15 p.m. until ten to 9 in the evening. He should start at 8:50 a.m. and work through noon to 3:15 p.m.