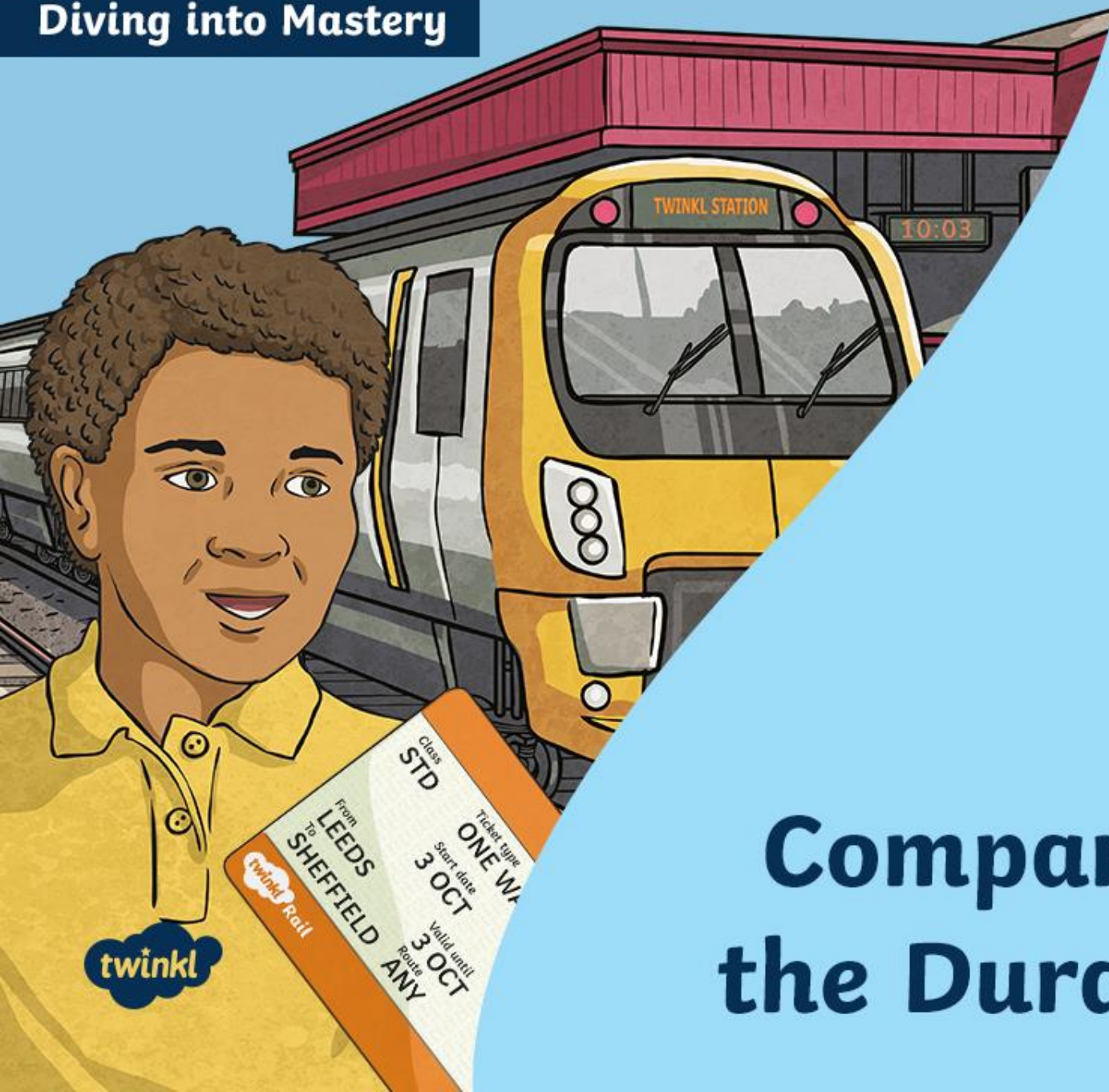


Diving into Mastery



# Comparing the Duration

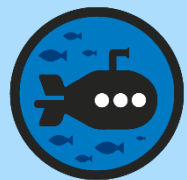


# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



# Aim

- Compare durations of events [for example to calculate the time taken by particular events or tasks].





Which symbol can be used to compare the duration?

3:00 a.m. – 05:00 a.m.



3:30 p.m. – 5:30 p.m.



## Comparing the Duration

## Diving



The timetable shows train times in Spain. Which option correctly completes the sentence?

Destination	Train departs	Train arrives
Madrid	09:10 a.m.	12:15 p.m.
Barcelona	09:20 a.m.	12:20 p.m.
Valencia	2:30 p.m.	5:20 p.m.

**50 minutes + 15 minutes = 1 hour 5 minutes**  
**+ 2 hours = 3 hours 5**

The duration of the journey to Madrid is **3 hours 5 minutes**.

09:10 a.m.

10:00 a.m.

12:00 p.m.

12:15 p.m.

3 hours

3 hours 5 minutes

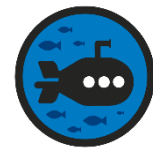
3 hours 10 minutes

3 hours 15 minutes



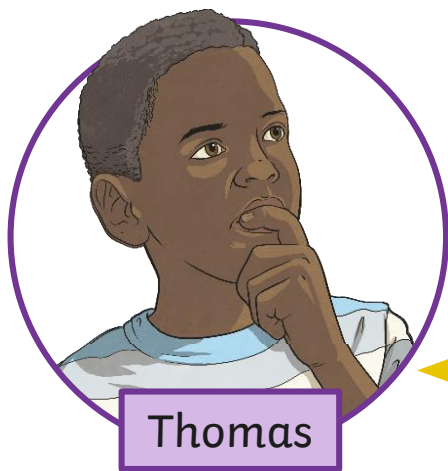
## Comparing the Duration

## Deeper



Two friends are discussing their journey to football practice.

Which child had the shortest journey to football practice? Explain fully.



Thomas

I left home at 09:20 a.m.  
and arrived at football  
practice at 10:15 a.m.

I left home at 09:25 a.m.  
and arrived at football  
practice at 10:05 a.m.



Raj

**Thomas'**  
journey is 40  
minutes long.

**Raj's**  
journey is 55  
minutes long.

**Thomas'**  
journey is the  
shortest.

## Comparing the Duration

## Deeper



Year 3 are checking their work on durations of time.

I want to complete the number line in three steps or less.

What different number lines can you think of?



### Two Steps

+ 5 hours

+ 20 minutes

5 hours  
20 minutes

01:15 p.m.

### Three Steps

+ 10 minutes

+ 10 minutes

+ 5 hours

01:15 p.m.

5 hours  
20 minutes

01:15 p.m.

01:25 p.m.

01:35 p.m.

06:35 p.m.

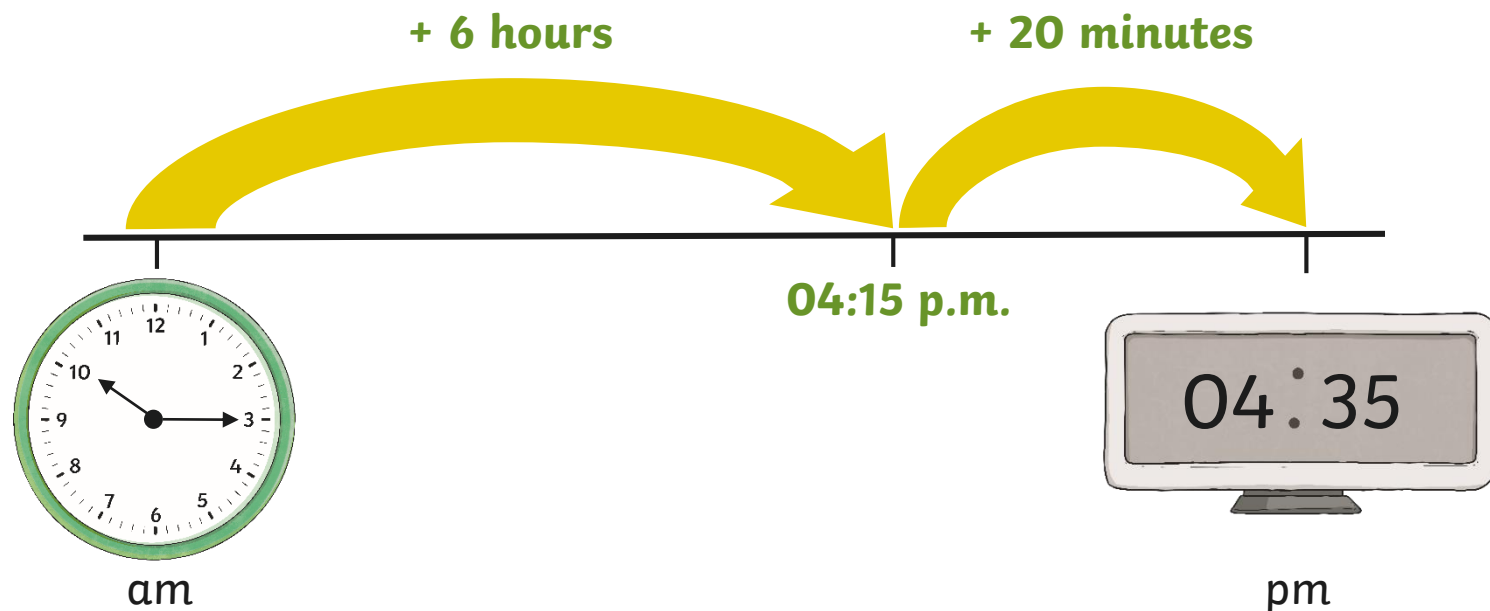
## Comparing the Duration

## Deepest



Show different ways you can calculate the duration between the times shown.

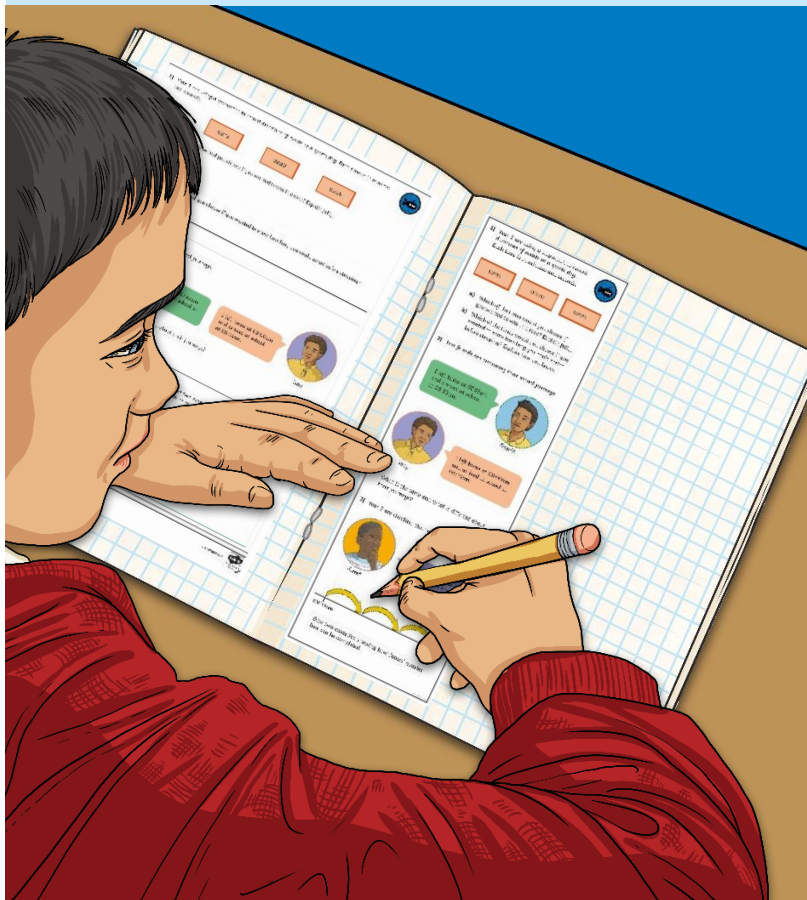
Various written calculations and number lines with different number hops can be used to show the answer of 6 hours 20 minutes. For example:





## Comparing the Duration

Dive in by completing your own activity!



1) Year 3 and Year 4 are comparing the durations of their journeys to school. Use the information to complete the sentences.

I started at 03:40 p.m. at 04:30 p.m.

My watch when I started was 10:45 a.m.

2) What is the duration of the journey? Use numbers to complete the sentences.

3) Show a journey that is 1 hour and 15 minutes long.

1) Use the symbols  $<$ ,  $>$  and  $=$  to compare the durations.

a) 12 p.m. - 3 p.m.  3 p.m. - 5 p.m. c) 12 p.m. - 1:00 p.m.  12:00 a.m. - 1:00 p.m.

b) 07:30 a.m. - 09:00 a.m.  07:00 p.m. - 09:00 p.m. d) 1:00 a.m. - 2:00 a.m.  11:00 a.m. - 12:30 p.m.

2) Use the timetable to complete the sentences about the duration of train journeys.

Destination	Train Departs	Train Arrives
Birmingham	07:45 a.m.	9:15 a.m.
London	08:30 a.m.	10:00 a.m.
Manchester	1:30 p.m.	3:10 p.m.

a) The duration of the train to Birmingham is \_\_\_\_\_ hour \_\_\_\_\_ minutes.

b) The train journey to London is \_\_\_\_\_ than the journey to Manchester.

c) The train journey to Manchester is \_\_\_\_\_ than the journey to Birmingham.

Use  $<$ ,  $>$  or  $=$  to make this statement correct.

d) London  Manchester  Birmingham.

3) Which is the shortest duration of time? Circle the correct answer.

a) 12:45  14:30

b) 10:30 a.m.  12:00 p.m.

c) 