

Elapsed time across hours and across midnight

CURRICULUM ALIGNMENT

MEA.TIM.4

solve and pose practical tasks and problems involving the interpretation and calculation of time.

INTERACTIVES Analog Clock Builder · challenge, display

WHAT THIS LESSON TEACHES

To find elapsed time, count the minutes up to the next whole hour first, then the full hours, then the last minutes. This works across midnight too.

→ 06:45 to 11:10: 15 min to 07:00, then 4 hours to 11:00, then 10 min = 4 h 25 min.

→ 23:30 to 02:15: 30 min to midnight, then 2 h 15 min after = 2 h 45 min.

MODEL THIS ON THE BOARD

DUBLIN TO LANZAROTE FLIGHT

- ① Start at **06:45**. Count **15** min up to the next whole hour **07:00**.
- ② Then count the full hours from **07:00** to **11:00**. That is **4** hours.
- ③ Then count the last **10** min from **11:00** to **11:10**.
- ④ Add them: **15** min + **4** h + **10** min = **4 h 25** min.

ANSWER KEY

Scaffold: visual check on the page

Q1: 4 h 30 min

Q2: 3 h 35 min

Q3: 3 h 45 min

Q4: 2 h 30 min

a) Always : This is the exact method taught for every journey in the lesson.

b) Always : After midnight the clock restarts from 00:00 so the arrival digits look smaller.

c) Always : Any careful count gives the same elapsed time: 06:45 to 11:10 is 4 h 25 min either way.

d) Never : It is only 2 h 45 min, well under 24 hours.

EXTENSION SHEET · STRETCH ANSWERS

S1: 6 h 44 min

S2: 23:43

S3: 4 h 20 min

S4: 5 h 3 min

S5: 3 h 41 min