

Calculating time intervals on timetables

Worksheet

Mr Ward



**Time will be a focus for today's lesson.
Can you match the times?**



One o'clock in the morning

01:00

3 p.m.

1 a.m.

Ten o'clock at night

22:00

10 p.m.

15:00

Three o'clock in the afternoon



Let's complete the missing information

How would we work out the time interval?



Key Info

The basketball starts at 2pm

The swimming starts at one o'clock in the afternoon.



Events on Saturday 6th August			
Sport	Start time	Finish time	Duration
Basketball			9 h 30 mins
Cycling	11:30		6 h 30 mins
Rowing		13:30	3 hours
Swimming		17:40	



Talk Task - Use the information to complete the timetable

Basketball starts at 2 pm



The events finish at twenty to eleven at night



Swimming starts at three o'clock in the afternoon



The cycling events last for four hours



Events on Sunday 7th August			
Sport	Start time	Finish time	Duration
Basketball		23:30	
Cycling	14:15		4 hours
Swimming		19:10	
Weightlifting	16:00		



Complete the missing information in the tables

Consider using number lines to help work out time intervals



Rowing events on Saturday 6 th August			
Event	Start time	Finish time	Duration
Men's single sculls heats	10:30	11:27	
Women's single sculls heats	11:30		57 mins
Men's pair heats		13:12	27 mins
Women's double sculls heats	13:15	13:47	
Men's Double sculls heats	13:50	14:17	
Men's quadruple sculls heats		15:07	
Women's quadruple sculls heats	15:10	15:27	

This started at ten to three.



This lasted half an hour.

The last event finished 2 hours and 38 mins after the first event started.

Swimming events on Saturday 6 th August			
Event	Start time	Finish time	Duration
Men's 400 m medley	15:02		24 mins
Women's 100 m butterfly	15:28	15:46	
Men's 400 m freestyle		16:30	42 mins
Women's 400 m medley	16:32		
Men's 100 m breaststroke	17:04	17:22	
Women's 4 x 100 m freestyle relay			16 mins



Timetable A



Rowing events on Saturday 6 th August			
Event	Start time	Finish time	Duration
Men's single sculls heats	10:30	11:27	
Women's single sculls heats	11:30		57 mins
Men's pair heats		13:12	27 mins
Women's double sculls heats	13:15	13:47	
Men's Double sculls heats	13:50	14:17	
Men's quadruple sculls heats		15:07	
Women's quadruple sculls heats	15:10	15:27	

This started at ten to three.



Timetable B



Swimming events on Saturday 6 th August			
Event	Start time	Finish time	Duration
Men's 400 m medley	15:02		24 mins
Women's 100 m butterfly	15:28	15:46	
Men's 400 m freestyle		16:30	42 mins
Women's 400 m medley	16:32		
Men's 100 m breaststroke	17:04	17:22	
Women's 4 x 100 m freestyle relay			16 mins

This lasted half an hour.

The last event finished 2 hours and 38 mins after the first event started.



Challenge Slide



$$\begin{array}{r} 11:30 \\ + \quad 57 \\ \hline 11:87 \end{array}$$



$$\begin{array}{r} 14:17 \\ - 13:50 \\ \hline 00:67 \end{array}$$

Ahmad loves using formal calculations. When asked to work out time intervals using a 24 hour digital clock, he decided to use written addition and subtraction because they are methods he is confident with.

1. Was he right to use these methods? Right down your reasoning.
2. Can you use a number line to demonstrate how you would answer the questions.

