

Max's Busy Day: A Time-Management Diary

Learning objective: To calculate intervals of time and solve problems involving 12-hour and 24-hour clocks, ensuring proficiency in reading and interpreting timetables.

Max the monkey has a very busy schedule today! Help him organise his day by filling in the diary entries below. Use the 24-hour clock where possible and show your working out for the time durations. Remember to check if your answers are in minutes or hours.

Word bank: duration · interval · 24-hour clock · schedule · elapsed time · midday · midnight

1. Morning Routine: Max starts his breakfast at 07:15 and finishes at 08:05. What is the total duration of his breakfast in minutes? (2 marks)

2. The Maths Challenge: Max begins a complex puzzle at 09:30. If it takes him 1 hour and 45 minutes to complete, at what time does he finish? (2 marks)

3. Market Visit: Max goes to the market to buy fruit. He spends £12.50 on bananas and £8.75 on mangoes. If he arrives at 14:15 and stays for 55 minutes, what time does he leave? (3 marks)

4. Afternoon Study: Max spends the time from 15:20 until 17:05 studying. How many hours and minutes did he spend studying? (2 marks)

5. Evening Reflection: Max needs to be in bed by 20:30. If it is currently 18:45, how much time does he have left before he must go to sleep? (2 marks)

Extension challenge: Create a 24-hour timetable for your own perfect Saturday, ensuring you include at least four different activities with specific start and end times. Calculate the total duration of your day from the moment you wake up until you go to bed.