

Max's Busy Day: A Time-Tracking Diary

Learning objective: To read, write and convert time between analogue and digital 12-hour clocks and solve problems involving duration.

Max the monkey is planning his day to make sure he has enough time for his favorite math puzzles. Fill in this diary template to help Max organize his schedule. You will need to convert between analogue clock times and digital 24-hour or 12-hour formats, and calculate the duration of each activity.

Word bank: analogue · digital · duration · interval · a.m. · p.m. · midnight · midday · o'clock

1. Morning Puzzle Session: Max starts his first math puzzle at 09:00 and finishes at 10:15. Draw the hands on a clock face or write the time in words. How long did he spend solving puzzles? (2 marks)

2. Lunchtime Break: If Max eats his lunch at half past twelve and finishes at 13:10, how many minutes did his lunch break last? (2 marks)

3. Afternoon Adventure: Max goes to the park at 2:30 p.m. and stays for 1 hour and 45 minutes. What time does he return home? Write your answer in digital format. (2 marks)

4. Evening Routine: Max likes to read his book for 45 minutes before bed. If he starts reading at 19:15, what time will he finish? Show your working out. (3 marks)

5. Total Time: Look at the activities above. If Max spent 75 minutes on puzzles, 40 minutes at lunch, 105 minutes at the park, and 45 minutes reading, what is the total duration in hours and minutes? (3 marks)

Extension challenge: Challenge: If Max wants to wake up at 07:00 and needs to be in bed by 20:30, how many hours and minutes are in his total 'awake' time? Can you represent this on a timeline?