

Max's Time-Travelling Maths Challenge

Learning objective: To read, write and convert time between analogue and digital 12-hour and 24-hour clocks, and solve problems involving duration.

Max the monkey has been busy organising his jungle schedule! Read the passage below and use your knowledge of clocks to answer the questions. Remember: there are 60 minutes in an hour and 24 hours in a day.

Max the monkey is planning a busy Saturday. He wakes up at 07:30 to start his morning stretches. At 09:15, he meets Pip the caterpillar to read stories in the library. They finish their reading session at 10:45. After a quick lunch, Max starts his favourite maths puzzles at 14:00 (which is 2:00 pm). He works on these for 90 minutes before heading out to play. Finally, he makes sure he is back home and tucked into bed by 20:30.

Word bank: Analogue · Digital · Duration · Interval · Midday · Midnight · 24-hour clock

1. How long did Max and Pip spend reading together in the library? Give your answer in minutes. (2 marks)

2. Max started his maths puzzles at 14:00. If he worked for 90 minutes, at what time did he finish? Write your answer in 24-hour format. (2 marks)

3. If Max wakes up at 07:30 and goes to bed at 20:30, how many hours is he awake for in total? (2 marks)

4. Max wants to buy a new puzzle book that costs £4.50. He saves 50p every day. How many days will it take him to save enough money? (2 marks)

5. If it is 10:45 on an analogue clock, where would the minute hand be pointing? (1 mark)

Draw: Draw a large analogue clock face showing the time Max goes to bed (20:30). Remember that on an analogue clock, this is shown as 8:30!



Extension challenge: Max has a digital watch that shows the time as 23:45. How many minutes are there until the start of a new day (00:00)? Explain how you calculated your answer.