

Max's Time-Travelling Maths Challenge

Learning objective: To solve problems involving converting between units of time, calculating durations, and using both 12-hour and 24-hour clocks.

Read each question carefully. Max the monkey has provided some tricky puzzles for you to solve! Show your working out clearly.

Word bank: duration · interval · analogue · digital · am · pm · convert

1. Max starts his jungle maths puzzle at 08:45. He finishes at 10:20. How long did Max spend working on his puzzle? Give your answer in hours and minutes. (2 marks)

2. Convert these times into the 24-hour clock format: a) 3:15 pm, b) 11:50 am, c) 12:05 am. (3 marks)

3. A film about the history of the rainforest lasts for 145 minutes. How many hours and minutes is this in total? (2 marks)

4. Pip the caterpillar starts reading a book at 14:30. She reads for 1 hour and 45 minutes. What time does she finish reading? Give your answer in 24-hour format. (2 marks)

5. If a train journey costs £12.50 per hour, how much would a journey lasting 3 hours and 30 minutes cost in total? (3 marks)

Draw: Draw a traditional clock face showing the time 4:45, and next to it, write the same time using a 24-hour digital display.



Extension challenge: Max challenges you: If you are 10 years old, how many minutes have you been alive? (Assume 365 days in a year and ignore leap years for this calculation!)