

Max's Busy Market Day: A Time-Solving Challenge

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

Max the monkey is helping his friends run their stalls at the Forest Market. Use the Market Timetable provided in the questions to help Max keep track of the day. For each task, work out the start time, end time, or total duration. Remember to show your working out for the calculation questions.

Word bank: duration · interval · 24-hour clock · analogue · midnight · midday

1. Pip the caterpillar arrives at the book stall at 09:15. If Pip stays for 1 hour and 45 minutes, what time does Pip leave? Write your answer in 12-hour format. (2 marks)

2. Nova the owl starts stargazing prep at 14:30 and finishes at 16:15. How long was Nova working? Give your answer in hours and minutes. (2 marks)

3. Zara the zebra paints signs from 10:45 until 13:20. Convert both of these times into the 24-hour clock format. (2 marks)

4. Finn the dolphin is selling maps. He opens at 08:30 and closes at 17:00. How many hours and minutes is the map stall open in total? (2 marks)

5. Leo the lion has a poetry reading that lasts for 55 minutes. If it ends at 15:20, what time did the reading start? Show your calculation. (2 marks)

Draw: Draw a clock face showing the time 16:45. Beside it, write the same time using the 24-hour digital clock format.



Extension challenge: Max wants to buy three books for £4.50 each. If he arrives at the market at 09:00 and spends 30 minutes at each stall he visits, and he visits 4 stalls before buying his books, what time will he finish his shopping?