

Max's Time-Traveling Market Challenge

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

Help Max the monkey organize his market stall. Read the passage carefully and use your knowledge of time to answer the questions. Show your working out clearly.

Max is managing a fruit stall at the local village market. He opened his stall at 08:30 in the morning. He spent 45 minutes setting out his colorful display of apples and pears. By 11:15, he had sold out of his first batch of fruit. Max decided to close the stall for a lunch break, promising his customers he would return at 13:45. He kept the stall open until the sun began to set at 18:20, which is when he finally packed everything away to head home.

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

1. Max started setting up his stall at 08:30 and finished at 09:15. How many minutes did this task take, and how would you represent this duration in hours and minutes? (2 marks)

2. If Max closes his stall at 18:20, what time is this on a 12-hour analogue clock? Remember to include 'p.m.' in your answer. (2 marks)

3. Max returned from his lunch break at 13:45. If he stayed open for 4 hours and 35 minutes, at what time did he finish for the day? Express your answer in 24-hour format. (3 marks)

4. Compare and contrast the 12-hour and 24-hour clock systems. Why might a business owner like Max prefer to use the 24-hour clock to avoid confusion? (4 marks)

5. Justify why it is important to understand the difference between 09:00 and 21:00 when planning a day of trading. (3 marks)

Draw: Draw two clock faces side-by-side. On the left, draw an analogue clock showing 08:30. On the right, draw an analogue clock showing 18:20. Label each one clearly with its 24-hour digital equivalent.



Extension challenge: Imagine Max decides to open a night market that starts at 20:00 and finishes at 01:30 the following morning. Calculate the total duration of the night market in hours and minutes. What might happen if Max miscalculates the duration and closes his stall too early? Write a short paragraph explaining the impact this could have on his customers.