

Max's Time-Travelling Market Day

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

Help Max the monkey organise his market stall. Read the activity times carefully and use the clocks provided to solve the maths puzzles. Show your working out clearly.

Max the monkey is running a fruit stall at the local village market. He opens his stall at 08:30 in the morning. He spends 45 minutes setting up his display. At 13:15, he takes a break to eat his lunch. Max closes his stall at 17:00, which is exactly 5:00 p.m. in the afternoon. He needs to make sure he records every sale correctly before he heads home to his treehouse.

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

1. If Max opens his stall at 08:30 and spends 45 minutes setting up, at what time does he finish setting up? Write your answer in 12-hour format. (2 marks)

2. Max takes his lunch break at 13:15. What is this time shown on a 12-hour clock? (1 mark)

3. How many hours and minutes is the stall open for in total, from opening at 08:30 until closing at 17:00? (2 marks)

4. A customer arrives at 14:45 and buys some apples. If they leave the stall at 15:10, how long did they spend choosing their fruit? (2 marks)

5. Max wants to pack away his stall at 17:00. If it takes him 30 minutes to pack everything up, what time will he finish? (1 mark)

Draw: Draw a large analogue clock face showing the time Max closes his stall (17:00). Remember to draw the hour hand pointing to the 5 and the minute hand pointing to the 12. Label the 'a.m.' and 'p.m.' side of the clock.



Extension challenge: Max decides to offer a 'Happy Hour' discount from 16:15 until 16:45. If a customer buys a basket of fruit costing £4.50 during this time, and they pay with a £10 note, how much change should Max give them?