

Max's Market Day Time Challenge

Learning objective: To solve problems involving converting between units of time and calculating durations using analogue and digital clocks.

Help Max the monkey calculate the timing for his market stall. Read the passage carefully and use your knowledge of 12-hour and 24-hour clocks to answer the questions below.

Max is organising a fruit stall at the village market. He arrives at the market square at 07:15. It takes him 45 minutes to set up his crates of apples and bananas. The market officially opens to the public at 09:00. Once the market is open, Max spends 3 hours and 20 minutes serving customers. After he closes the stall, he spends another 30 minutes tidying up before he catches the bus home at 13:15.

Word bank: Duration · Interval · Analogue · Digital · Midday · Midnight · Chronological

1. At what time does Max finish setting up his stall? Show your working. (2 marks)

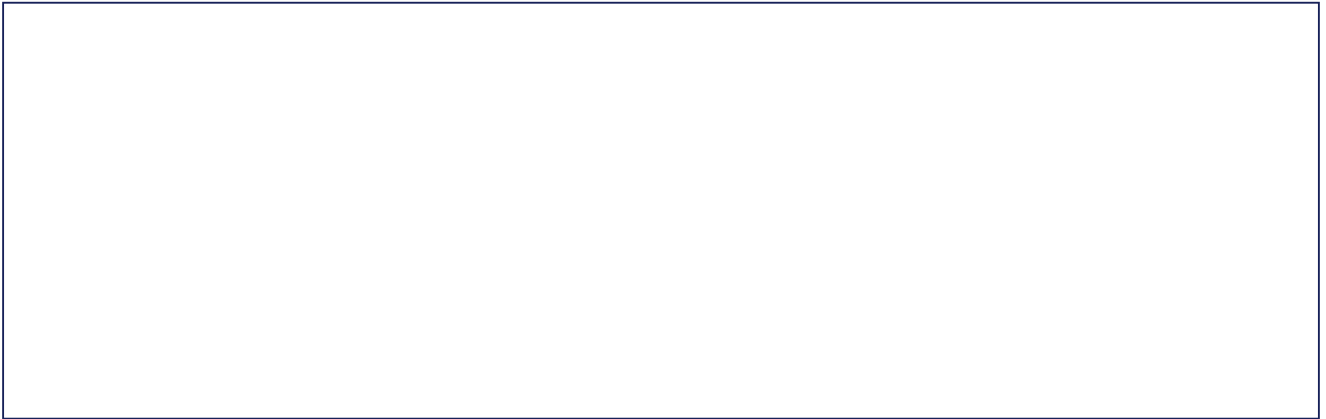
2. If the market opens at 09:00, how long does Max have to wait after he finishes setting up before the first customers arrive? (2 marks)

3. Max serves customers for 3 hours and 20 minutes. If he starts serving at 09:00, at what time does he finish serving? (2 marks)

4. Convert the bus departure time of 13:15 into a 12-hour clock format, including am or pm. (1 mark)

5. How much total time does Max spend at the market square from the moment he arrives at 07:15 until his bus leaves at 13:15? (2 marks)

Draw: Draw an analogue clock face showing the time 07:15, and draw a second clock face showing the time 13:15.



Extension challenge: If Max decides to stay at the market for an extra 45 minutes to help his friend, what time will he leave? Write your answer in both 12-hour and 24-hour format.