

Max's Busy Day: A Time Challenge

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

Read about Max the monkey's day. Use your knowledge of clocks and time intervals to answer the questions below. Show your working out clearly.

Max the monkey is planning his busy schedule at the forest park. He starts his morning maths practice at 08:30. He works for 45 minutes before taking a break. After his break, he spends 1 hour and 15 minutes helping Zara the zebra paint a mural. They finish painting at exactly 10:30. In the afternoon, Max decides to visit the library. The library opens at 13:00 and he stays there until 15:45. Finally, he meets his friends for a sunset picnic which begins at 18:15.

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

1. At what time does Max finish his maths practice? Write your answer in 12-hour digital format. (2 marks)

2. How long does Max spend at the library? Give your answer in hours and minutes. (2 marks)

3. If Max's picnic lasts for 90 minutes, at what time will the picnic end? Write your answer in 24-hour format. (2 marks)

4. Max says he spent a total of 2 hours helping Zara paint. Using the information in the passage, explain why Max is correct or incorrect. (2 marks)

5. Convert 13:00 into 12-hour time, including a.m. or p.m. (1 mark)

Draw: Draw a clock face showing the time Max finishes his maths practice (09:15). Label the hour hand and the minute hand.



Extension challenge: Max wants to start a new project at 19:30. If it takes him 2 hours and 45 minutes to complete, what time will he finish? Show your calculation using a number line.