

Max's Time-Travelling Maths 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 each question carefully. Show your working out for word problems and remember to include units like 'am', 'pm' or 'hours' where necessary.

Word bank: analogue · digital · duration · interval · midnight · midday · seconds · minutes · hours

1. Max looks at his watch. The analogue clock shows the short hand pointing just past 4 and the long hand pointing at the 6. Write this time in 12-hour digital format (e.g., 4:30 pm). (1 mark)

2. If it is 14:15 in 24-hour time, what time is it in 12-hour format? Include am or pm in your answer. (1 mark)

3. Leo the Lion starts his poetry club at 09:45. The club lasts for 1 hour and 20 minutes. What time does the club finish? (2 marks)

4. Pip the caterpillar begins reading a book at 16:30 and finishes at 17:15. How many minutes did Pip spend reading? (2 marks)

5. Nova the owl starts stargazing at 20:10 and finishes at 22:05. Calculate the total duration of Nova's stargazing session in hours and minutes. (3 marks)

Draw: Draw a circular clock face showing the time 7:45. Make sure the hour hand is positioned correctly between the 7 and the 8.



Extension challenge: Max has a train ticket that says the train leaves at 08:50 and arrives at 11:25. If the train is delayed by 15 minutes, what time will it arrive? Write your answer in 24-hour format.