

Year 6 Maths Assessment: Mastering Time

Learning objective: To solve problems involving the calculation and conversion of units of time, including 12-hour and 24-hour clocks and time intervals.

Read each question carefully. Show your working out in the space provided to ensure you can gain method marks. Max the monkey is counting on your accuracy!

Max the monkey is organising a jungle sports day. He needs to track the start times, end times, and total durations of various events to keep the schedule running smoothly. Help Max solve these timing puzzles.

Word bank: interval · duration · 24-hour clock · am · pm · leap year · chronological

1. The 100-metre sprint starts at 09:45 and finishes at 10:12. How long did the race last in minutes? (2 marks)

2. Convert the following times into the 24-hour clock format: a) 4:15 pm, b) 11:30 pm, c) 12:05 am. (3 marks)

3. A relay race begins at 13:50. If the race lasts for 1 hour and 25 minutes, at what time does it finish? Give your answer in 24-hour format. (2 marks)

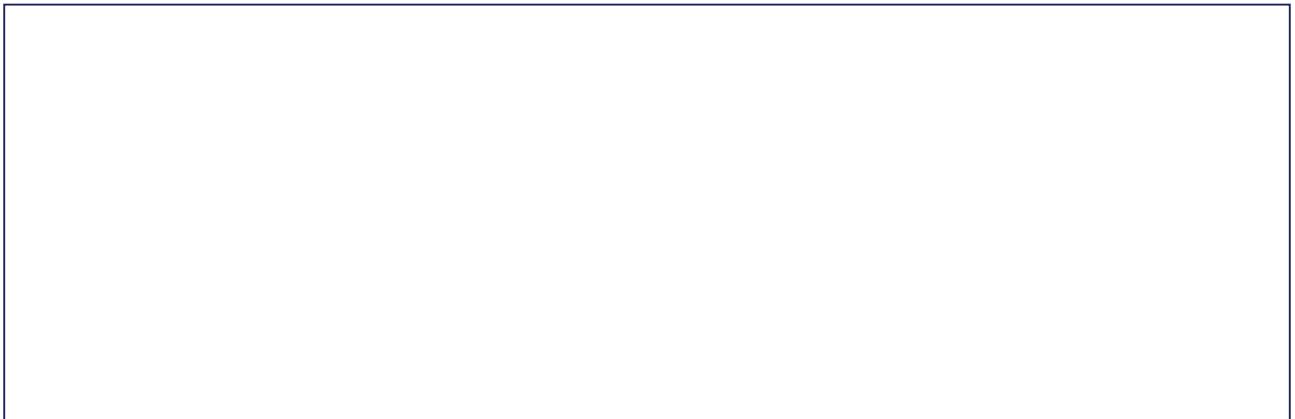
4. Max buys refreshments for the athletes. He spends £12.50 on fruit. If he pays at 14:15 and the transaction takes 450 seconds, what time does he finish paying? Show your working. (4 marks)

5. An express train travels from one jungle outpost to another. It departs at 21:40 and arrives at 05:20 the next morning. Calculate the total duration of the journey in hours and minutes. (4 marks)

6. Max wants to plan a tournament that lasts for exactly 5 days. If the tournament begins on Monday 28th February in a leap year, what is the exact date and day of the week that the tournament ends? Explain your reasoning. (5 marks)

7. Explain why it is important for scientists like Nova the owl to use a 24-hour clock when recording observations of nocturnal animals. (5 marks)

Draw: Draw a clock face showing the time 16:45, and underneath, draw a digital display showing the same time in 12-hour format.



Extension challenge: Total: /25