12-/24-hour clocks

6 questions | 8 marks

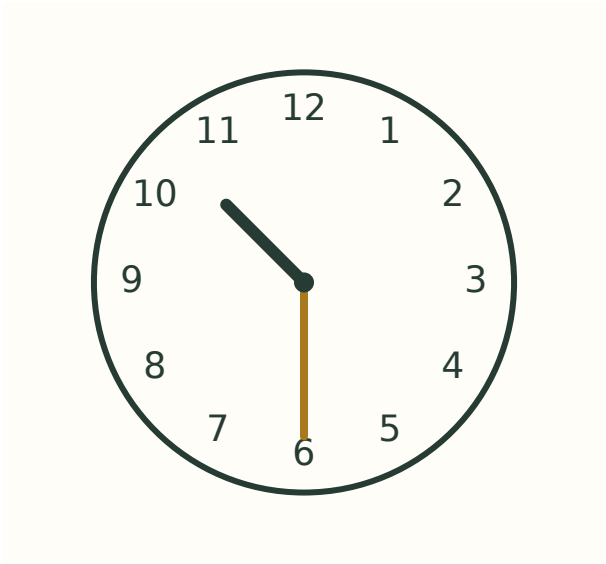
Equivalent correct methods earn the corresponding marks.

1. The minute hand points to 2 and the hour hand is just past 8. Write the time. [1 mark]

$2 \times 5 = 10$ minutes; the last hour passed is 8.

Answer: 8:10

2. Read the time on the clock. Do not add am or pm unless it is known. [1 mark]



The minute hand is at 6, giving 30 minutes; the hour hand is between 10 and 11.

Answer: 10:30

3. Write quarter to four in the afternoon in digital 12-hour time. [1 mark]

Quarter to the next hour is 15 minutes before it; $4:00 - 15 \text{ minutes} = 3:45$.

Answer: 3:45 pm

4. Is the start of a new day 12:00 am or 12:00 pm? [1 mark]

A new day begins at midnight.

Answer: 12:00 am

5. A 24-hour display shows 08:05. State the hour, minutes and part of the day. [2 marks]

The fields show hour 08 and minute 05. Hour 08 is before noon.

Answer: 8 hours and 5 minutes after midnight; 8:05 am.

6. Sam says an unlabelled clock showing 7:00 proves it is breakfast time. Explain why that is not certain. [2 marks]

The same 12-hour clock positions occur twice each day.

Answer: It could be 7:00 am or 7:00 pm; a label or context is needed.