

WA4MMGT11

Non-spatial measurement

Core + Challenge

Converting 12-hr to 24-hr Time

I can convert times between 12-hour (am/pm) and 24-hour notation.

Name: _____ Date: _____ Score: / 53

Key idea

Converting 12-hour to 24-hour time: for am times, the 24-hour time matches (e.g. 3:45am = 03:45). For pm times (except 12pm), add 12 hours (e.g. 3:45pm = 15:45). 12:00pm (noon) = 12:00; 12:00am (midnight) = 00:00.

A Fluency *practise the skill*

/16 marks

Convert each 12-hour time to 24-hour time.

- | | |
|-----------------------------|-------------------|
| 1. 3:45am _____ | 9. 1:15pm _____ |
| 2. 3:45pm _____ | 10. 1:15am _____ |
| 3. 7:00am _____ | 11. 6:50pm _____ |
| 4. 7:00pm _____ | 12. 11:05am _____ |
| 5. 9:30am _____ | 13. 11:05pm _____ |
| 6. 9:30pm _____ | 14. 4:40pm _____ |
| 7. 12:00pm (noon) _____ | 15. 10:20am _____ |
| 8. 12:00am (midnight) _____ | 16. 8:35pm _____ |

B Core *apply the skill to problems*

/21 marks

- 1 A movie starts at 7:30pm. Write this in 24-hour time.

[3 marks]

Answer: _____

- 2 A flight departs at 14:45 (24-hour time). (a) Write this in 12-hour time with am/pm. (b) Is this time in the morning or afternoon?

[4 marks]

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Answer: _____**3**

A shop opens at 9:00am and the receipt shows the time in 24-hour format. Write the opening time in 24-hour time.

[3 marks]**Answer:** _____**4**

A train timetable shows a departure at 23:10. (a) Write this in 12-hour time. (b) Is this close to midnight or midday?

[4 marks]**Answer:** _____**5**

A doctor's appointment is booked for 3:20pm. Write this in 24-hour time.

[3 marks]**Answer:** _____**6**

A library closes at 17:45 (24-hour time). (a) Write this in 12-hour time. (b) Is the library still open at 6:00pm? Explain.

[4 marks]**Answer:** _____**C****Reasoning** *explain, justify and check***/9 marks****1**

Explain how to convert a pm time (other than 12pm) from 12-hour to 24-hour time, using 4:30pm as an example.

[2 marks]

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2

Explain why 12:00pm (noon) converts to 12:00 in 24-hour time, not 00:00.

[2 marks]

3

A student converts 9:15pm to 24-hour time by writing 9:15. Explain the student's error and give the correct 24-hour time.

[2 marks]

4

A student says that converting an am time to 24-hour time never changes the numbers. Is this true for all am times? Explain, using 12:00am (midnight) as a test case.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

A 24-hour time shows 18:20. What is this in 12-hour time?

[2 marks]

Answer: _____

2

A 12-hour time of 11:55pm is converted to 24-hour time. What is the result, and how many minutes is this before midnight (24:00/00:00)?

[2 marks]

Answer: _____

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3

Two films start 2 hours and 30 minutes apart. The first starts at 13:15 (24-hour time). (a) What 24-hour time does the second film start? (b) Write this in 12-hour time.

[3 marks]

Answer: _____

How did I go?

Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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