



# WORKSHEET 33

Converting 12-Hour to 24-Hour Time  
Year 5 Mathematics — Measurement Strand  
Australian Curriculum v9.0 — AC9M5M03

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Section 1: Fluency - Simple Conversions

**Question 1:** Convert 8:30 a.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 2:** Convert 4:15 p.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 3:** Write 9:00 a.m. in 24-hour time.

Answer: \_\_\_\_\_

**Question 4:** Convert 6:45 p.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 5:** Write 11:20 a.m. in 24-hour time.

Answer: \_\_\_\_\_



**Question 6:** Convert 2:50 p.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 7:** Look at the conversion guide below. Complete the missing times.

12-Hour Time	24-Hour Time
3:30 p.m.	

7:10 a.m.	
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Answer: \_\_\_\_\_

**Question 8:** Convert 5:05 p.m. to 24-hour time.

Answer: \_\_\_\_\_



### Clock Cockatoo Says:

“You’re a Time Traveller!”

*Joke Time:* Why did the girl sit on her clock?  
She wanted to be on time!

## Section 2: Reasoning - Noon and Midnight

**Question 9:** Is 12:00 p.m. (noon) written as 1200 or 0000 in 24-hour time?



Answer: \_\_\_\_\_

**Question 10:** Is 12:00 a.m. (midnight) written as 1200 or 0000 in 24-hour time?

Answer: \_\_\_\_\_

**Question 11:** Explain why 11:30 p.m. becomes 2330. What calculation did you do?

Answer: \_\_\_\_\_

**Question 12:** Convert 12:45 p.m. to 24-hour time.

Answer: \_\_\_\_\_

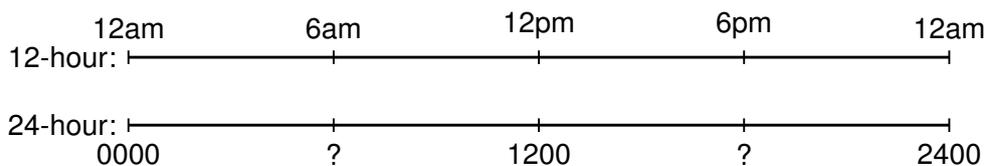
**Question 13:** Convert 12:15 a.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 14:** True or False: 10:00 p.m. is written as 2200 in 24-hour time.

Answer: \_\_\_\_\_

**Question 15:** Look at the time conversion number line. Fill in the missing 24-hour times.





Answer: \_\_\_\_\_

**Question 16:** What is 1:00 a.m. in 24-hour time?

Answer: \_\_\_\_\_

### Time-Travel Turtle Says:



“You’re a 24-Hour Hero!”

*Joke Time:* What did the digital clock say to its mother?  
Look, Ma! No hands!

### Section 3: Challenge - Digital Displays

**Question 17:** Look at the digital clock display. What time would this be on a 12-hour clock? Include a.m. or p.m.

**21:45**

Answer: \_\_\_\_\_

**Question 18:** This digital clock shows 14:20. Write this in 12-hour time.

**14:20**

Answer: \_\_\_\_\_

**Question 19:** Convert 9:25 p.m. to 24-hour time and show it on a digital display format.



Answer: \_\_\_\_\_

**Question 20:** A train departure board shows 0745. What time is this in 12-hour format?

Answer: \_\_\_\_\_

**Question 21:** Convert 11:55 p.m. to 24-hour time.

Answer: \_\_\_\_\_

**Question 22:** Challenge: A 24-hour clock shows 1357. What time is this in 12-hour format?

Answer: \_\_\_\_\_

**Question 23:** Convert 10:10 a.m. to 24-hour time.

Answer: \_\_\_\_\_

### Digital Display Dolphin Says:



“You’re Converting Like a Champion!”

*Joke Time:* Why did the clock go to the principal’s office?  
For tocking too much!

**Excellent work! Check your answers on the next page.**



# WORKSHEET 33

## ANSWER KEY

### Section 1: Fluency - Simple Conversions

1. 0830
2. 1615
3. 0900
4. 1845
5. 1120
6. 1450
7. 1530 (3:30 p.m.) and 0710 (7:10 a.m.)
8. 1705

### Section 2: Reasoning - Noon and Midnight

9. 1200 (noon is 12:00 p.m.)
10. 0000 (midnight is the start of a new day)
11. Add 12 to the hour:  $11 + 12 = 23$ , so 11:30 p.m. = 2330
12. 1245
13. 0015
14. True
15. 0600 (for 6am) and 1800 (for 6pm)
16. 0100

### Section 3: Challenge - Digital Displays

17. 9:45 p.m. ( $21 - 12 = 9$ )
18. 2:20 p.m. ( $14 - 12 = 2$ )
19. 2125
20. 7:45 a.m.
21. 2355
22. 1:57 p.m. ( $13 - 12 = 1$ )
23. 1010



# WORKSHEET 34

## Timetables and Elapsed Time

Year 5 Mathematics — Measurement Strand

Australian Curriculum v9.0 — AC9M5M03

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Section 1: Fluency - Converting Back to 12-Hour Time

**Question 1:** Convert 0920 to 12-hour time.

Answer: \_\_\_\_\_

**Question 2:** Convert 1805 to 12-hour time.

Answer: \_\_\_\_\_

**Question 3:** Write 1330 in 12-hour format.

Answer: \_\_\_\_\_

**Question 4:** Convert 2145 to 12-hour time.

Answer: \_\_\_\_\_

**Question 5:** Write 0615 in 12-hour format.

Answer: \_\_\_\_\_



**Question 6:** Convert 1555 to 12-hour time.

Answer: \_\_\_\_\_

**Question 7:** Complete the conversion table:

24-Hour Time	12-Hour Time
2300	

0445	
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Answer: \_\_\_\_\_

**Question 8:** Convert 1200 to 12-hour time.

Answer: \_\_\_\_\_

### Conversion Koala Says:



**“You’re Converting Both Ways!”**

*Joke Time:* What time is it when an elephant sits on your clock?

Time to get a new clock!

## Section 2: Reasoning - Bus Timetables

**Question 9:** Look at the bus timetable below. How many minutes does it take to travel from the Station to the Park?



Location	Time (24-hour)
Station	1420
School	1445
Park	1510

Answer: \_\_\_\_\_

**Question 10:** Using the timetable above, how long does it take to travel from the School to the Park?

Answer: \_\_\_\_\_

**Question 11:** The bus arrives at the Station at 1420. Write this in 12-hour time.

Answer: \_\_\_\_\_

**Question 12:** Look at this train timetable. How long is the journey from City to Beach?

City	0815
Beach	0945

Answer: \_\_\_\_\_

**Question 13:** A train departs at 1635 and arrives at 1720. How long was the journey?

Answer: \_\_\_\_\_

**Question 14:** Look at this schedule. What time in 12-hour format does the Library event start?



Event	Time
Library Story	1530

Answer: \_\_\_\_\_

**Question 15:** A swimming lesson starts at 0730 and finishes at 0830. How long is the lesson?

Answer: \_\_\_\_\_

**Question 16:** If a bus leaves at 14:00 and the journey takes 35 minutes, what time does it arrive (in 24-hour time)?

Answer: \_\_\_\_\_



### Timetable Kangaroo Says:

“You’re Hopping Through Timetables!”

*Joke Time:* Why was the clock always nervous?  
It was always wound up!

## Section 3: Challenge - Real-World Problems

**Question 17:** A movie starts at 19:30 and lasts for 2 hours. What time does it finish in 12-hour time?

Answer: \_\_\_\_\_

**Question 18:** A flight leaves at 22:00 and arrives at 06:00 the next day.



How long was the flight?

Answer: \_\_\_\_\_

**Question 19:** A restaurant opens at 11:30 a.m. and closes at 11:00 p.m.  
How many hours is it open?

Answer: \_\_\_\_\_

**Question 20:** A TV show starts at 1920 and runs for 45 minutes. What time does it end (in 24-hour time)?

Answer: \_\_\_\_\_

**Question 21:** A baker starts work at 04:30 a.m. Write this in 24-hour time.

Answer: \_\_\_\_\_

**Question 22:** Challenge: A concert starts at 7:45 p.m. and finishes at 10:30 p.m. How long is the concert in hours and minutes?

Answer: \_\_\_\_\_

**Question 23:** A train journey takes 1 hour and 25 minutes. If the train departs at 1340, what time does it arrive (in 24-hour time)?

Answer: \_\_\_\_\_

**Question 24:** Challenge: It's 8:00 a.m. in Sydney. A plane takes 9 hours to fly to Singapore. What time will it arrive in Singapore (in 24-hour time)?



Answer: \_\_\_\_\_



### Problem-Solving Owl Says:

**“You’re a Real-World Time Master!”**

*Joke Time:* What time does a duck wake up?  
At the quack of dawn!

**Outstanding work! Check your answers on the next page.**





# WORKSHEET 34

## ANSWER KEY

### Section 1: Fluency - Converting Back to 12-Hour Time

1. 9:20 a.m.
2. 6:05 p.m.
3. 1:30 p.m.
4. 9:45 p.m.
5. 6:15 a.m.
6. 3:55 p.m.
7. 11:00 p.m. and 4:45 a.m.
8. 12:00 p.m. (noon)

### Section 2: Reasoning - Bus Timetables

9. 50 minutes (from 1420 to 1510)
10. 25 minutes (from 1445 to 1510)
11. 2:20 p.m.
12. 1 hour 30 minutes or 90 minutes (from 0815 to 0945)
13. 45 minutes
14. 3:30 p.m.
15. 1 hour or 60 minutes
16. 1435

### Section 3: Challenge - Real-World Problems

17. 9:30 p.m. ( $19:30 + 2 \text{ hours} = 21:30 = 9:30 \text{ p.m.}$ )
18. 8 hours (from 22:00 to 06:00 the next day)
19. 11.5 hours or 11 hours 30 minutes (11:30 a.m. to 11:00 p.m.)
20. 2005 ( $1920 + 45 \text{ minutes}$ )
21. 0430
22. 2 hours 45 minutes
23. 1505 ( $1340 + 1 \text{ hour } 25 \text{ minutes}$ )
24. 1700 ( $0800 + 9 \text{ hours} = 1700 \text{ or } 5:00 \text{ p.m.}$ )

**Brilliant!**

You've mastered 12 & 24-Hour Time!  
Keep up the fantastic work in Year 5 Maths!