

WA5MMGNS2

Non-spatial measurement

Core + Challenge

NAPLAN-style

12- and 24-Hour Time

I can change between 12-hour and 24-hour time, read and draw clocks, and find durations.

Name: _____ Date: _____ Score: _____ / 57

Key idea

12-hour time uses **am** (midnight to noon) and **pm** (noon to midnight). **24-hour time** uses 4 digits and no am or pm.

For **pm** times from 1 pm, **add 12** to the hour. To go back, **subtract 12**. Midnight is **00:00** and noon is **12:00**.

To find a **duration**, count on: to the next o'clock, then whole hours, then the minutes left. There are **60 minutes** in an hour, not 100.

Example: 7:40 pm is in the evening, so add 12 to the hour: $7 + 12 = 19$. So 7:40 pm = **19:40**.

One day in 12-hour and 24-hour time



A Warm up *convert, read and draw times*

/ 16 marks

Write each time in **24-hour time**. 1 mark each.

1

6:20 am

2

3:45 pm

3

11:05 pm

4

12:25 am

Write each time in **12-hour time** with am or pm. 1 mark each.

5

08:50

6

17:35

7

12:40

8

21:15

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Write the time on each clock in **24-hour** time. 1 mark each.

- 9** A time in the **afternoon**



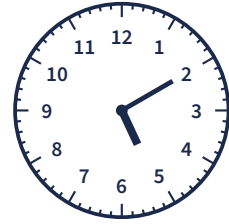
- 10** A time in the **morning**



- 11** A time late at **night**

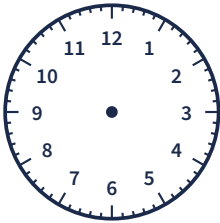


- 12** A time in the **evening**

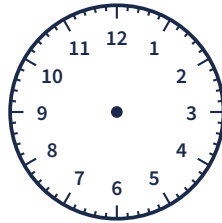


Draw the hands on each clock. Make the hour hand shorter. 1 mark each.

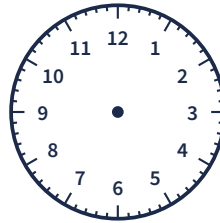
- 13** Show **16:40**



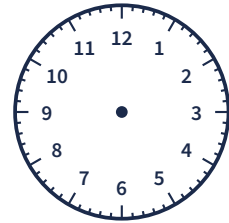
- 14** Show **09:25**



- 15** Show **21:05**



- 16** Show **13:50**



B **Practise** *use the skill*

/ 22 marks

- 1** Maya's Saturday. **a)** Write each time in 24-hour time. **b)** Mark each event on the timeline with an arrow and its letter. [3 marks]

Event	12-hour time	24-hour time
A netball	8:45 am	
B lunch	12:30 pm	
C cinema	3:15 pm	
D dinner	6:45 pm	



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- 2 Use the bus timetable. **a)** What time does Bus 2 leave **Harrisdale**? Write it in 12-hour time. **b)** How long does Bus 3 take from Southern River to Aubin Grove Stn? **c)** Jay must be at Aubin Grove Stn by **4:30 pm**. Which is the **latest** bus he can catch from **Piara Waters**, and what time does it leave? [3 marks]

Bus 599 (invented): Southern River to Aubin Grove Station · Weekdays · 24-hour time				
Stop	Bus 1	Bus 2	Bus 3	Bus 4
Southern River	14:52	15:22	15:52	16:22
Harrisdale	15:01	15:31	16:02	16:31
Piara Waters	15:09	15:40	16:11	16:40
Aubin Grove Stn	15:22	15:54	16:26	16:55

- a) _____
b) _____
c) _____

- 3 Soccer training starts at **16:35** and finishes at **18:10**. Show jumps on the time line [2 marks]



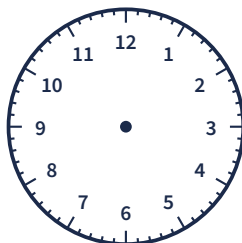
Answer: _____

- 4 A cake goes into the oven in the **afternoon** at the time shown. It bakes for **45 minutes**. Draw the hands to show when it comes out, and write that time in 24-hour time. [2 marks]

In



Out



Answer: _____

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- 5 The table shows the time the sun sets in Perth on four dates. **a)** Write the sunset time on **1 January** in 12-hour time. **b)** How much **earlier** does the sun set on 1 July than on 1 January? **c)** Ben's footy training ends at **6:00 pm**. On which dates is the sun still up when it ends? [3 marks]

Perth sunset times (about)	
Date	Sunset
1 January	19:23
1 April	18:12
1 July	17:25
1 October	18:11

- a) _____
- b) _____
- c) _____

- 6 Draw a line to join each 12-hour time to the **same** time in 24-hour time. [2 marks]

4:10 pm •	• 23:30
12:05 am •	• 12:05
11:30 am •	• 16:10
11:30 pm •	• 00:05
12:05 pm •	• 11:30

- 7 Complete the Year 5 camp timetable. Each activity starts when the one before it finishes. [3 marks]

Activity	Start	Duration	Finish
Canoeing	09:15	1 h 20 min	
Morning tea		20 min	
Archery			12:10
Lunch		50 min	

- 8 Write these times in order from **earliest** to **latest** in the day. 7:50 am, 13:05, 12:45 pm, 00:20, 6:30 pm, 18:15 [2 marks]

Answer: _____

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- 9 A coach leaves Perth at **08:40** and arrives in Albany at **14:25**. **a)** How long is the trip? **b)** Write the arrival time in 12-hour time. [2 marks]

Answer:

C Think it through *explain your thinking*

/ 10 marks

- 1 Kim says, “17:00 is **7 pm**, because the last digit of 17 is 7.” Do you agree with Kim? Explain. [2 marks]

- 2 Ryan worked out the time from **10:45** to **12:15**. He wrote: $1215 - 1045 = 170$, so it is **1 h 70 min**. Do you agree with Ryan? Explain, and find the correct time. [2 marks]

- 3 **True or false?** “12:15 pm is the same as 00:15.” Explain. [2 marks]

- 4 **Always, sometimes or never true?** “To change a 12-hour time to 24-hour time, you **add 12** to the hour.” Circle one and give examples. [2 marks]

Always

Sometimes

Never

- 5 Which is the **odd one out**? quarter to seven in the evening, 18:45, 6:45 pm, 06:45 Explain. [2 marks]

D**Challenge** *stretch yourself*

/ 9 marks

- 1** On a 24-hour digital clock, **11:11** has four digits that are all the same. **a)** Find **all** [3 marks]
the times in one day with four digits the same. **b)** How long is it from each one to
the next? (Remember the last one of the day and the first one of the next day.)

Answer: _____

- 2** On **1 January** in Perth, the sun rises at **05:12** and sets at **19:23**. The next [3 marks]
morning it rises at **05:13**. **a)** How long is it light on 1 January? **b)** How long is the
night, from sunset until the next sunrise?

Answer: _____

- 3** Mia is going to an AFL game. She must be at the stadium gate by **19:15**. Trains [3 marks]
leave her station at **17:52**, **18:07**, **18:22** and **18:37**. The train takes **28 minutes**,
and then it is a **12-minute** walk to the gate. Mia's home is a **9-minute** walk from
her station. What is the **latest** time Mia can leave home? Give your answer in
12-hour time.

Answer: _____

How did I go?Warm up ____ / 16 Practise ____ / 22 Think it through ____ / 10 Challenge ____ / 9 **Total ____ / 57**Want help with Year 5 maths? Our tutors make it click. **Book a free trial class at [edulift.com.au](https://www.edulift.com.au)**