Year 6 maths: 24-hour time, timetables and time zones (Hard)

Maths · Measurement
Level: Hard

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. A night walk. It starts at 2235 and finishes at 0110. How many minutes is that?

Answer: ☐ minutes

Working:

2. Which stop on Trip 2 of the Bayview Ferry is nearest to halfway through the journey in time, from Pier One to Lantern Island?

Circle one answer.

Stop	Trip 1	Trip 2	Trip 3
Pier One	8:10 am	9:40 am	11:10 am
Gull Point	8:25 am	9:55 am	11:25 am
Reef Cove	8:40 am	10:10 am	11:40 am
Kelp Bay	9:25 am	10:55 am	12:25 pm
Lantern Island	10:30 am	12:00 pm	1:30 pm

○ **A** Kelp Bay ○ **B** Reef Cove ○ **C** Gull Point

3. Which stop on Trip 3 of the Southern Plains Express is nearest to halfway through the journey in time, from Alder to Elm Park?

Circle one answer.

Stop	Trip 1	Trip 2	Trip 3
Alder	1330	1530	1730
Bluff	1445	1645	1845
Cedar Flat	1505	1705	1905
Dunmore	1530	1730	1930
Elm Park	1600	1800	2000

○ **A** Bluff ○ **B** Cedar Flat ○ **C** Dunmore

4. Which stop on Trip 1 of the Orchard Loop Night Bus is nearest to halfway through the journey in time, from Depot Street to Night Market?

Circle one answer.

Stop	Trip 1	Trip 2	Trip 3
Depot Street	2130	2300	0030
Fig Tree Road	2150	2320	0050
Station Plaza	2200	2330	0100
Harbour Gate	2250	0020	0150
Night Market	2330	0100	0230

○ **A** Station Plaza ○ **B** Fig Tree Road ○ **C** Harbour Gate

5. Ngaio gets to Harbour Gate at 2330. How long must she wait for the next bus?

Circle one answer.

Stop	Trip 1	Trip 2	Trip 3
Depot Street	2130	2300	0030
Fig Tree Road	2150	2320	0050
Station Plaza	2200	2330	0100
Harbour Gate	2250	0020	0150
Night Market	2330	0100	0230

○ **A** 2 hours 20 minutes ○ **B** 50 minutes

○ **C** 40 minutes

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6. How long does Trip 1 of the Highland Rail take from Marlow to Summit?

Circle one answer.

Stop	Trip 1	Trip 2	Trip 3
Marlow	0645	0845	1115
Ridgeway	0705	0905	1135
Cobb's Gap	0725	0925	1155
Fernhill	0855	1055	1325
Summit	0955	1155	1425

○ **A** 3 hours 10 minutes ○ **B** 2 hours 10 minutes

○ **C** 3 hours 50 minutes

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7. On Trip 3 of the Orchard Loop Night Bus, how many minutes is the bus ride from Depot Street to Night Market?

Answer: ☐ minutes

Stop	Trip 1	Trip 2	Trip 3
Depot Street	2130	2300	0030
Fig Tree Road	2150	2320	0050
Station Plaza	2200	2330	0100
Harbour Gate	2250	0020	0150
Night Market	2330	0100	0230

Working:

8. In winter, Singapore is 2 hours behind Sydney. A plane leaves Sydney at 2:15 pm and flies for 8 hours. What is the local time in Singapore when it lands?

Circle one answer.

○ **A** 8:15 pm ○ **B** 10:15 pm ○ **C** 12:15 am

9. How many hours are there in a week?

Answer: ☐

Working:

10. Which time is the latest?

Circle one answer.

○ **A** 9:50 pm ○ **B** 10:05 pm ○ **C** 22:15 ○ **D** 21:55

Answer key

Year 6 maths: 24-hour time, timetables and time zones (Hard) · Sheet 267429

1. 155 minutes

2235 to 0110 is 2 hours 35 minutes, which is 155 minutes.

2. A — Kelp Bay

The trip takes 2 hours 20 minutes, so halfway is 1 hour 10 minutes in, at about 10:50 am. Kelp Bay (10:55 am) is nearest.

3. A — Bluff

The trip takes 2 hours 30 minutes, so halfway is 1 hour 15 minutes in, at 1845. Bluff (1845) is exactly halfway.

4. C — Harbour Gate

The trip takes 2 hours, so halfway is 1 hour in, at about 2230. Harbour Gate (2250) is nearest.

5. B — 50 minutes

The next bus leaves at 0020. 2330 to 0020 is 50 minutes.

6. A — 3 hours 10 minutes

0645 to 0955 is 3 hours 10 minutes.

7. 120 minutes

0030 to 0230: 2 hours, which is 120 minutes. An hour has 60 minutes.

8. A — 8:15 pm

In Sydney it lands at 10:15 pm. Singapore is behind by 2 hours, so the local time is 8:15 pm.

9. 168

7 days x 24 hours = 168 hours.

10. C — 22:15

Write them all in 24-hour time: 22:15, 21:50, 21:55 and 22:05. The latest is 22:15.