Unit 8 · Time

HARDER PRACTICE QUESTIONS

Full marks 36

Write your answers on separate paper. Show your working, and write the unit with every answer. The buses, flights, schools and people on this sheet are made up for the problems.

1 Which bus is quickest? [5]

Here are three buses from Kathmandu to Pokhara.

Bus	Leaves Kathmandu	Reaches Pokhara
Day bus A	06:45	14:10
Day bus B	7:30 AM	3:15 PM
Night bus	21:15	04:50 the next day

i. Write the times of Day bus B in 24-hour time.
ii. How long does each bus take?
iii. Which bus is quickest?
iv. Write the night bus's arrival time in 12-hour time.

2 Through the night [3]

A night bus leaves Kakarbhitta at 4:30 PM. The trip to Kathmandu takes 14 hours 45 minutes. When does it reach Kathmandu? Give the time in 24-hour and in 12-hour time.

3 Work backwards [3]

Ayushma's flight leaves Kathmandu at 07:40. She must be at the airport 2 hours before it leaves. The taxi to the airport takes 50 minutes, and she needs 35 minutes to get ready. When must her alarm ring? Give the time in 12-hour time.

4 Spot the errors [3]

Utsab wrote three answers. All three are wrong. Write each one correctly, and say what his mistake was.

i. 12:20 AM = 12:20
ii. 18:45 = 8:45 PM
iii. 2 hours 30 minutes = 2.30 hours

5 Sixteen songs [3]

A song is 3 minutes 45 seconds long. Sandesh plays 16 such songs, one after another. How long is that, in hours, minutes and seconds?

6 A school day [4]

A school's classes run from 10:00 to 15:45. In that time there are 7 classes of equal length, and a break of 30 minutes after the 4th class.

i. How long is each class?
ii. When does the break start? Give it in 12-hour time.
iii. When does the 6th class start?

7 Seven times as old [4]

Sampada is 9 years 8 months old. Her grandfather is exactly 7 times as old as she is. Her brother is exactly half as old as she is.

i. How old is her grandfather?
ii. How old is her brother?
iii. How much older than her brother is Sampada? Why is the answer the same as his age?

8 Days of the week [4]

In 2079 BS, Asoj 1 was a Saturday, and Asoj had 31 days. Work these out without a calendar. Count on in weeks of 7 days.

i. What day was Asoj 22?
ii. What day was Asoj 31?
iii. What day was Kartik 1?
iv. What day was Kartik 15?

9 A call to Tokyo [3]

Japan's clocks are 3 hours 15 minutes ahead of Nepal's. Nishma, in Kathmandu, calls her uncle in Tokyo at 19:30, Nepal's time.

i. What time is it in Tokyo? Give it in 24-hour and 12-hour time.
ii. Her uncle goes to bed at 23:00, Tokyo's time. What is the latest Nepal time she can call him?
iii. He calls her back at 08:00 the next morning, Tokyo's time. What time is it in Kathmandu then?

10 Think: a lakh of seconds [4]

Is 1 lakh seconds (1,00,000 seconds) more or less than one day? Change it into days, hours, minutes and seconds.