Racing Seconds

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. 2 h 21 min = ? minutes

(a) 201 minutes **(b)** 81 minutes **(c)** 141 minutes **(d)** 221 minutes

2. 2 min 19 s = ? seconds

(a) 139 seconds **(b)** 79 seconds **(c)** 219 seconds **(d)** 199 seconds

3. 824 seconds =

(a) 13 min 54 s **(b)** 14 min 44 s **(c)** 13 min 44 s **(d)** 12 min 44 s

4. 6:35 p.m. in 24-hour time is:

(a) 19:35 hours **(b)** 06:35 hours **(c)** 18:35 hours **(d)** 17:35 hours

5. 1 minute =

(a) 30 seconds **(b)** 100 seconds **(c)** 60 seconds **(d)** 10 seconds

6. A show starts at 2:45 p.m. and lasts 3 h. When does it end?

(a) 5:45 p.m. **(b)** 6:45 p.m. **(c)** 5:35 p.m. **(d)** 5:55 p.m.

7. How long is it from 12:36 p.m. to 2:48 p.m.?

(a) 2 h 22 min **(b)** 3 h 12 min **(c)** 2 h 12 min **(d)** 1 h 32 min

8. Which unit would you use to time taking a bath?

(a) Days **(b)** Seconds **(c)** Hours **(d)** Minutes

Section B — Short answer — 8 × 2 = 16 marks

9. Write 541 minutes in hours and minutes.

10. Write 1,238 seconds in minutes and seconds.

11. Write 08:40 hours as an a.m. or p.m. time.

12. A match ended at 2:50 p.m. after lasting 1 h 15 min. When did it start?

13. A night bus leaves at 11:50 p.m. and the journey takes 7 h 40 min. When does it arrive?

14. Neel took 3 min 40 s, Riya took 3 min 27 s and Zoya took 1 min 14 s to finish a puzzle. Who took the longest? By how much more than the quickest?

15. A stopwatch shows 01:38 (minutes:seconds). How many seconds is that?

16. Add: 2 h 55 min + 4 h 45 min

Section C — Word problems — 4 × 4 = 16 marks

17. A train leaves Agra at 12:25 hours and reaches Surat at 15:50 hours. (a) How long is the journey in hours and minutes? (b) In minutes? (c) One day it arrives 45 minutes late. Write the arrival time in a.m./p.m.

18. In a cycle race the times were: Lata 1 min 48 s, Riya 5 min 12 s, Joseph 2 min 54 s, Susie 3 min 1 s. (a) Write each time in seconds. (b) Who won? (c) By how many seconds did the winner beat the last rider?

19. School starts at 7:45 a.m., and there are 4 periods of 35 minutes, a 30-minute break, then 4 more periods of 35 minutes. (a) When does the break start? (b) When does school end? (c) Write the end time in 24-hour time.

20. A film starts at 8:40 p.m. and runs for 2 h 40 min. (a) When does it end? (b) Write the end time in 24-hour time. (c) How many minutes long is the film?

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Answer key

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Q	Answer	Working
1	**(c) 141 minutes**	2 h = 120 min; add 21
2	**(a) 139 seconds**	2 min = 120 s; add 19
3	**(c) 13 min 44 s**	824 ÷ 60 = 13 remainder 44
4	**(c) 18:35 hours**	add 12 to the hours for p.m. times (after 1 p.m.)
5	**(c) 60 seconds**	—
6	**(a) 5:45 p.m.**	2:45 p.m. + 3 h
7	**(c) 2 h 12 min**	count on to the next hour, then on to the end
8	**(d) Minutes**	—
9	**9 h 1 min**	541 ÷ 60 = 9 remainder 1
10	**20 min 38 s**	1,238 ÷ 60 = 20 remainder 38
11	**8:40 a.m.**	—
12	**1:35 p.m.**	2:50 p.m. − 1 h 15 min
13	**7:30 a.m.**	the time goes past midnight into a.m.
14	**Neel; 2 min 26 s**	in seconds: 220, 207, 74
15	**98 seconds**	1 × 60 + 38
16	**7 h 40 min**	55 + 45 = 100 min = 1 h 40 min
17	**(a) 3 h 25 min; (b) 205 minutes; (c) 4:35 p.m.**	—
18	**(a) Lata 108 s, Riya 312 s, Joseph 174 s, Susie 181 s; (b) Lata; (c) 204 seconds**	the shortest time wins
19	**(a) 10:05 a.m.; (b) 12:55 p.m.; (c) 12:55 hours**	4 × 35 = 140 min
20	**(a) 11:20 p.m.; (b) 23:20 hours; (c) 160 minutes**	—

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