

Example: Convert 9 hours 26 minutes 40 seconds to seconds.

$$\begin{aligned} 1 \text{ hour} &= 60 \text{ minutes} \\ &= 60 \times 60 \text{ seconds} \\ &= 3,600 \text{ seconds} \end{aligned}$$

$$1 \text{ minute} = 60 \text{ seconds}$$

$$\begin{aligned} 9 \text{ hours} &= 9 \times 3600 \text{ seconds} = 32,400 \text{ seconds} \\ 26 \text{ minutes} &= 26 \times 60 \text{ seconds} = 1,560 \text{ seconds} \\ &\quad \quad \quad \underline{40 \text{ seconds}} \\ &\quad \quad \quad 34,000 \text{ seconds} \end{aligned}$$

$$9 \text{ hours } 26 \text{ minutes } 40 \text{ seconds} = \underline{34,000} \text{ seconds}$$

Convert the hours, minutes, and seconds to seconds.

- 1) 23 hours 50 minutes 31 seconds = _____ seconds
- 2) 17 hours 21 minutes 49 seconds = _____ seconds
- 3) 5 hours 47 minutes 6 seconds = _____ seconds
- 4) 7 hours 14 minutes 58 seconds = _____ seconds
- 5) 19 hours 37 minutes 15 seconds = _____ seconds
- 6) 1 hour 55 minutes 33 seconds = _____ seconds
- 7) 20 hours 1 minute 40 seconds = _____ seconds
- 8) 15 hours 28 minutes 53 seconds = _____ seconds
- 9) 12 hours 42 minutes 17 seconds = _____ seconds
- 10) 4 hours 18 minutes 27 seconds = _____ seconds