

**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) 8 hours 20 minutes 36 seconds = \_\_\_\_\_ seconds
- 2) 2 hours 46 minutes 12 seconds = \_\_\_\_\_ seconds
- 3) 13 hours 18 minutes 50 seconds = \_\_\_\_\_ seconds
- 4) 9 hours 8 minutes 29 seconds = \_\_\_\_\_ seconds
- 5) 20 hours 58 minutes 5 seconds = \_\_\_\_\_ seconds
- 6) 10 hours 32 minutes 46 seconds = \_\_\_\_\_ seconds
- 7) 16 hours 29 minutes 11 seconds = \_\_\_\_\_ seconds
- 8) 3 hours 15 minutes 25 seconds = \_\_\_\_\_ seconds
- 9) 21 hours 30 minutes 30 seconds = \_\_\_\_\_ seconds
- 10) 14 hours 6 minutes 57 seconds = \_\_\_\_\_ seconds