

Name : _____

Time Conversion

HMS1

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

1 hour = 60 minutes
= 60×60 seconds
= 3,600 seconds
1 minute = 60 seconds

9 hours = 9×3600 seconds = 32,400 seconds
26 minutes = 26×60 seconds = 1,560 seconds
40 seconds
34,000 seconds

9 hours 26 minutes 40 seconds = 34,000 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

Name : _____

Time Conversion

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

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

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

$$9 \text{ hours} = 9 \times 3600 \text{ seconds} = 32,400 \text{ seconds}$$

$$26 \text{ minutes} = 26 \times 60 \text{ seconds} = 1,560 \text{ seconds}$$

$$\begin{array}{r} 40 \text{ seconds} \\ \hline 34,000 \text{ seconds} \end{array}$$

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

Convert the hours, minutes, and seconds to seconds.

- 1) 8 hours 20 minutes 36 seconds = 30,036 seconds
- 2) 2 hours 46 minutes 12 seconds = 9,972 seconds
- 3) 13 hours 18 minutes 50 seconds = 47,930 seconds
- 4) 9 hours 8 minutes 29 seconds = 32,909 seconds
- 5) 20 hours 58 minutes 5 seconds = 75,485 seconds
- 6) 10 hours 32 minutes 46 seconds = 37,966 seconds
- 7) 16 hours 29 minutes 11 seconds = 59,351 seconds
- 8) 3 hours 15 minutes 25 seconds = 11,725 seconds
- 9) 21 hours 30 minutes 30 seconds = 77,430 seconds
- 10) 14 hours 6 minutes 57 seconds = 50,817 seconds