

Converting minutes into seconds

3 minutes and 10 seconds

There are 60 seconds in a minute, to work out how many seconds are in 3 minutes you need to multiply 3 by 60.

This can be done in a simpler way:

$$3 \times 6 = 18$$

$$18 \times 10 = \mathbf{180}.$$

However, you also need to add on the ten seconds:

$$\begin{array}{r} 180 \\ + 10 \\ \hline 190 \end{array}$$

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Try these:

1. 2 minutes and 20 seconds

$$2 \times 60$$

$$2 \times 6 = \underline{\quad} \times 10 = \underline{\quad}$$

$$\underline{\quad} + 20 = \underline{\quad}$$

2. 1 minute and 40 seconds

3. 4 minutes and 10 seconds

4. 3 minutes and 5 seconds

5. 6 minutes

6. 5 minutes and 50 seconds

7. 8 minutes and 55 seconds

8. 10 minutes and 10 seconds

9. 9 minutes and 30 seconds

10. 7 minutes and 15 seconds

Converting hours into minutes

2 hours and 30 minutes

There are 60 minutes in an hour, to work out how many minutes are in 2 hours, you need to multiply 2 by 60.

This can be done in a simpler way:

$$2 \times 6 = 12$$

$$12 \times 10 = \mathbf{120}.$$

However, you also need to add on the 30 minutes:

$$\begin{array}{r} 120 \\ + 30 \\ \hline 150 \end{array}$$

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Try these:

11. 4 hours and 20 minutes

$$4 \times 60$$

$$4 \times 6 = \underline{\quad} \times 10 = \underline{\quad}$$

$$\underline{\quad} + 20 = \underline{\quad}$$

12. 1 hour and 15 minutes

13. 3 hours and 10 minutes

14. 5 hours

15. 6 hours and 25 minutes

16. 5 hours and 55 minutes

17. 8 hours and 5 minutes

18. 10 hours and 45 minutes

19. 9 hours and 35 minutes

20. 7 hours and 40 seconds

Word Problems

1. Matilda is 1 hour and 42 minutes long. How long is this in minutes?
2. The lunch break lasts 1 hour and 5 minutes. How long is this in minutes?
3. A full day at school is 8 hours and 35 minutes. How long is this in minutes?
4. A break at school is 10 minutes. How long is this in seconds?
5. A children's song is 6 minutes and 30 seconds long. How many seconds is this?

Extension

- How many minutes are in one hour?
- How many seconds are in a minute?
- How many hours are in a day?
- How many days are in a week?
- How many minutes in half an hour?
- How many hours in half a day?
- How many days are in 3 weeks?
- How many hours in a quarter of a day?
- How many seconds are in 2 minutes?
- How many seconds are in 5 minutes?
- How many days are in 10 weeks?
- How many minutes are in 10 hours?