

Converting Time



Hours to Minutes

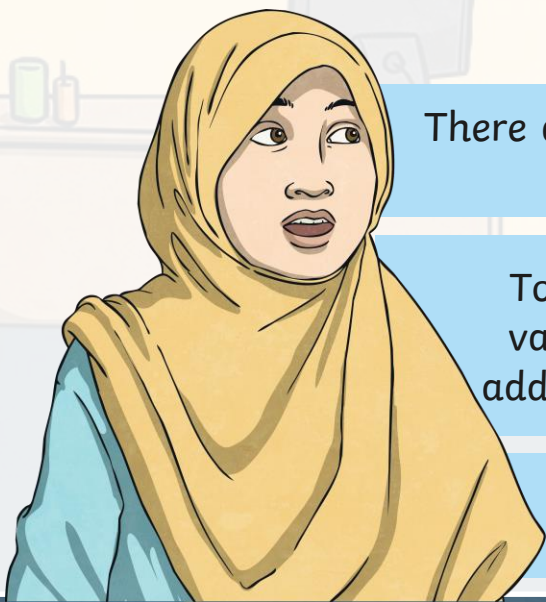
Fatima says, “2 hours is 100 minutes.”

Explain how she should convert a number of hours into minutes. Include the calculation process you would use.

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Use an example.

Share your explanation with a partner and make any improvements.



There are 60 minutes in an hour, so the number of hours is multiplied by 60.

To multiply by 60, multiply by 6, then by 10 using place value – moving the digits one place value to the left, and adding a 0 in the ones place if necessary as a placeholder.

$$\begin{aligned} 4 \text{ hours} &= 4 \times 60 \text{ minutes.} \\ 4 \times 6 &= 24, 24 \times 10 = 240 \text{ minutes} \end{aligned}$$

Minutes to Seconds

Alfie produces a table where minutes have been converted into seconds. Find any incorrect answers and calculate the correct answer. If possible, explain any possible errors, and discuss with a partner.

Minutes	Seconds
5	30
10	600
12	700
15	1000
25	15 000
60	3600



Years to Months

Fatima calculates the following:

- age in months;
- the number of months attended at school;
- the number of months until the age of 18 is reached;
- the number of months left at the current school, e.g. leaving to attend secondary school.

Can you calculate the answers for yourself?
Share your answers with a partner and explain how you calculated each answer.



Years to Months

Laura knows there are 7 days in a week. To help her convert weeks into days, come up with some different ways of multiplying by 7. Share your ideas with a partner.

- $\times 5 + \times 2$ ($\times 5$ by half $\times 10$ and $\times 2$ by doubling)
- or $\times 10 - \times 3$ ($\times 10$ by place value and $\times 3$ by double and add $\times 1$)

Try out your ideas to answer the following questions:

How many days in 26 weeks?

How many days in 43 weeks?

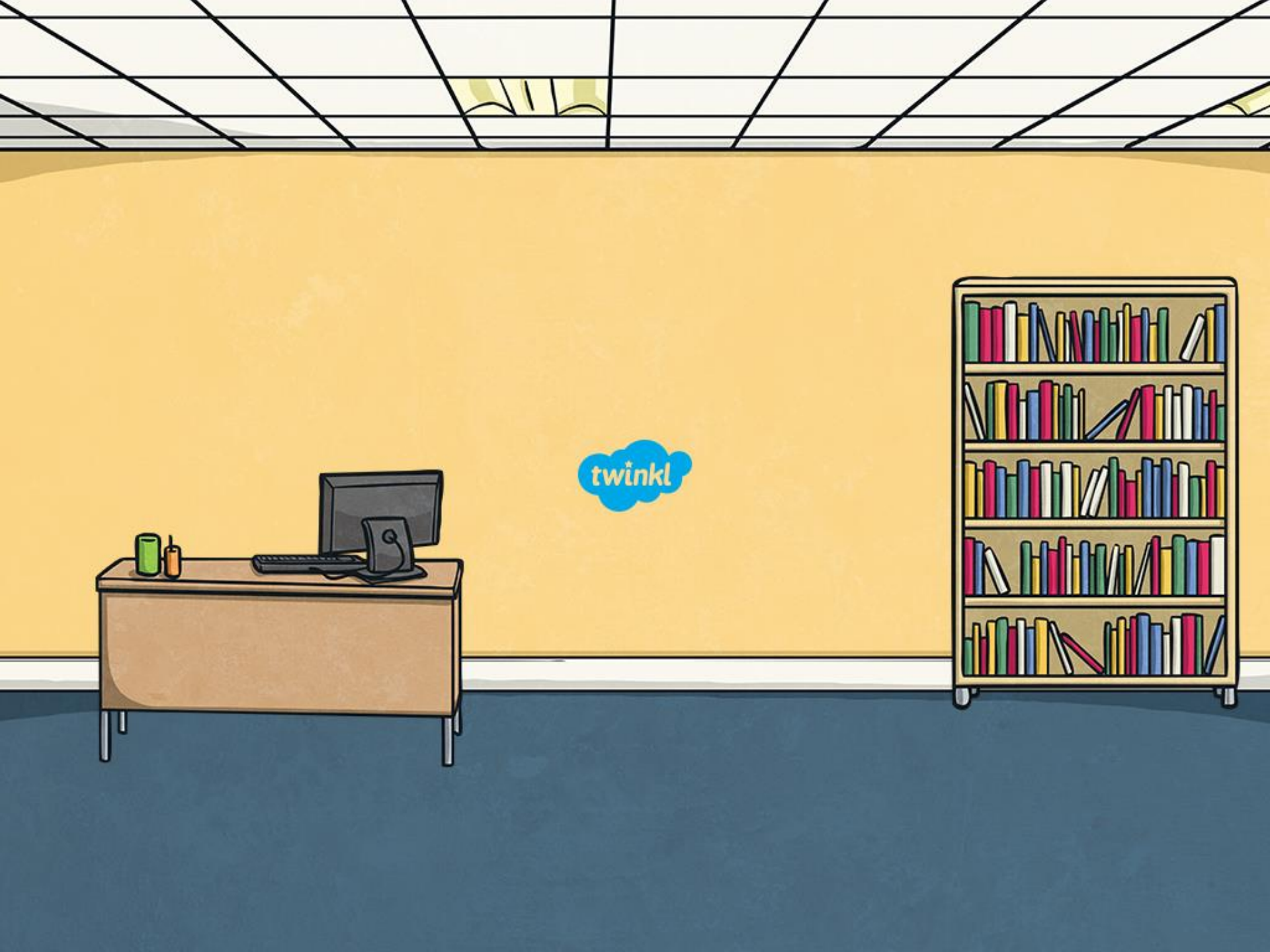
How many days in 78 weeks?

How many days in 109 weeks?

How many days in 156 weeks?

Number of days = 182, 301, 546, 763, 1092





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