



# Converting between units of time

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05/03/21

# Let's have a go at ordering units of time...

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What is the shortest unit of time you can think of?

Nano second      One billionth of a second!

Seconds            60 seconds in a minute

Minutes            60 minutes in an hour

Hours               24 hours in 1 day

Days                7 days in 1 week

Weeks              28, 30 or 31 days in 1 month

Months             12 months in a year

Year                10 years in a decade

Decade             100 years in a century!

Century

# STOP!!!! Fun fact time!

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What do you think the smallest unit of time is?

Planck – used in particle physics and physical cosmology (studying the beginning of the universe!)

What do you think the biggest unit of time is?

Yottasecond which is about 31.7 quadrillion years

OR 380,399,583,123,744,510 months!

# Let's try these conversions

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We know there are 24hours in a day...

To calculate the number of hours in 2 days I need to  $\times 24$

2days = 24hours

3 days = 72hours

7 days = 168hours

**How is converting between units of time different to other measures?**

**When you convert it, you do not always need to  $\times$  /  $\div$  by 10, 100 or 1000. It might be 60 or 24 or 7.**

# What about weeks?

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7 days in 1 week...

How many days in 2 weeks?

14 days in 2 weeks...

How many days in 6 weeks?

42days!

We can use our base facts to help us  $7 \times 6 = 42$ days

How many weeks is 28 days?  $28 \div 7 = 4$  (weeks)

# Activity

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Play bingo! Play with someone at home or write down as many facts relating to time as you can think of!

If you are playing with someone, write down some numbers that you can think of which relate to time e.g. 24hours is 1 day, 7 for the days in a week and so on. Then the other person has to say a question about time..."how many days in a week?" and if you wrote down 7 you cross it off!

If you don't have someone to play along with...think of as many facts as you can which relate to time and write them down. Then...I do like a fun fact so try and find out something interesting about time!

Then – how do we measure time? Think of as many units as you can! You might like to research some of them.

# Challenge

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Have a go at these!

1 hour =  minutes

2  $\frac{1}{2}$  hours =  minutes

hours = 600 minutes

How many days are there in 3 weeks?

How many hours are there in 4 days?

How is converting units of time different to converting some other units of measure?

Think about:

1m = 100cm

1 day = 24 hours