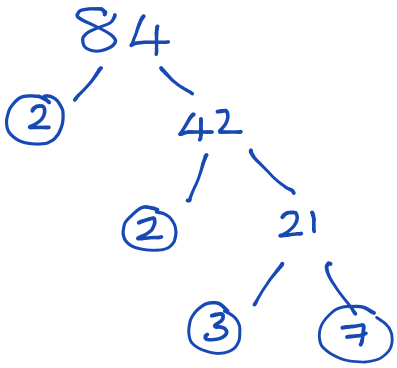
JustMaths

Write 84 as a product of its prime factors.

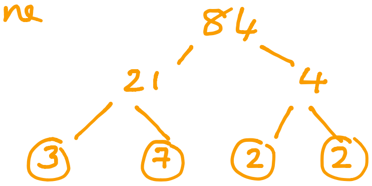


Remember there are several ways of 'splitting' 84 and all will end up with the same prime factors...here's a different one

This can then be written as a product of prime factors

$2\times2\times3\times7$

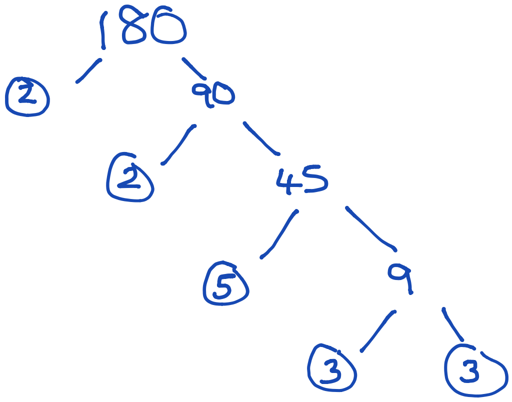
or $2^2\times3\times7$



neither are prime numbers so I've got to carry on...

$2\times2\times3\times7$ or $2^2\times3\times7$

Express 180 as a product of its prime factors.

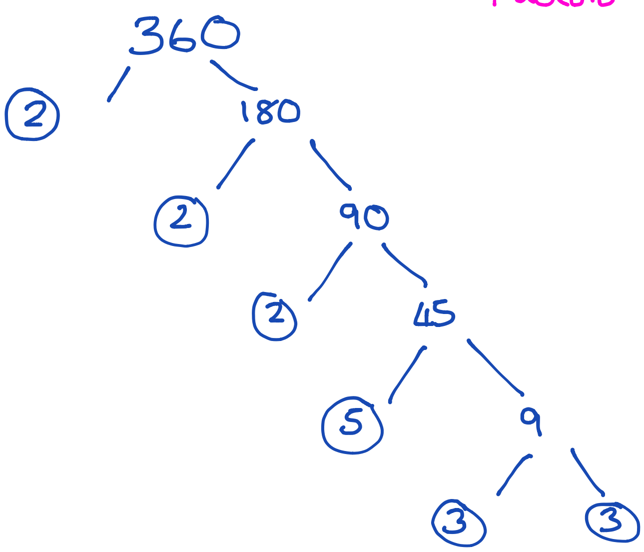


$2 \times 2 \times 3 \times 3 \times 5$

OR $2^2 \times 3^2 \times 5$

Write 360 in the form $2^a \times 3^b \times 5^c$

this doesn't mention prime factors anywhere.....



$2 \times 2 \times 2 \times 3 \times 3 \times 5$

$2^3 \times 3^2 \times 5$

This looks like the question ☺

The number 1104 can be written as $3 \times 2^c \times d$, where c is a whole number and d is a prime number.

Work out the values of c and d.

1104

2 552

2 276

2 138

2 69

3 23

Again product of prime factors isn't mentioned

23 is a prime number

$2 \times 2 \times 2 \times 2 \times 3 \times 23$

comparing to the question....

$3 \times 2^4 \times 23$

so $c = 4$ and $d = 23$