Prime Decomposition
sunday, 25 March 2018 9:53 pm

Year 7 Textbook
Chapter ${ }^{\text {Ex }}$
Exercise 3F
Questions:5-6(s), 8.9, 10, 13
Extension: None
RECAP:
In a previous lesson we looked at the following two topics:

- Prime Numbers (and composite Numbers)
- Powers

We have also looked at how to find the

- Lowest Common Multiple, and
- Highest Common Factor

We did this using Factor Trees and some interesting Mathematics!
We are now going

## BACK mTIME



This seams a long bay
fo site a nuouber!


RECAP:
Powers area quick and easy way for us to write lots of multiplic
There are rules to powers and some of them are really funky!
There are rules to powers and so
But... for now ... we know that:
$\Longrightarrow \begin{aligned} & \text { A number (the base) written to a power (floaty number) means you need to } \\ & \text { Multiply the base by itself the number of times the floaty number says! }\end{aligned}$


$$
\begin{aligned}
& a^{(3)}(x)^{(6)}=a^{a} \\
& a^{4}(x)^{a^{3}}
\end{aligned}
$$

(2) $\cdot 33^{2}=$

The "base number" is the big number
We can string lots of powers together like:

Index Notation


Powers become really pow full later in the book
Just wait until we get to Real Numbers.

Don't you just hate the English Language?


So, the question is asking us to write the number 80 as a list of prime numbers which are multiplied together.
Which is the same as PRIME DECOMPOSITION.


