## Prime Factorisation



SCAN ME

## REVISE THIS

 TOPIC1 Write 88 as a product of its prime factors.


$$
2^{3} \times 11
$$

(Total for Question 1 is 2 marks)
2 Write 180 as a product of its prime factors.


$$
2^{2} \times 3^{2} \times 5
$$

(Total for Question 2 is 2 marks)
3 Write 450 as a product of its prime factors.


4 Write 112 as a product of its prime factors.


5 Write 126 as a product of its prime factors.


6 Write 260 as a product of its prime factors.

$2^{2} \times 5 \times 13$

7 Write 308 as a product of its prime factors.


8 Write 310 as a product of its prime factors.


$$
2 \times 5 \times 31
$$

9 Write 116 as a product of its prime factors.


10 Adil was asked to express 360 as a product of its prime factors.
He says,
"The answer is $2^{3} \times 9 \times 5$ "
Is Adil correct?
You must give a reason for your answer.
No - 9 is not prime.
It should be $2^{3} \times 3^{2} \times 5$

11 Becca thinks of two numbers, $A$ and $B$.
$A=2^{3} \times 3^{4} \times 11$
$B=10 A$
Write B as a product of its prime factors.

$$
10=2 \times 5
$$

12 Cameron thinks of two numbers, $C$ and $D$.
$C=2 \times 3^{3} \times 5^{4}$
$C: D=3: 5$
Write $D$ as a product of its prime factors.

$$
\because 3\binom{3: 5}{1: \frac{5}{3}} \div 3 \quad D=\frac{C \times 5}{3}
$$

