

## Number - Prime Factors

Q1

Express 180 as a product of its prime factors.

*(3 marks)*

Q2

Write 144 as a product of prime factors.  
Give your answer using indices.

*(3 marks)*

## Number - Prime Factors

Q1

Express 180 as a product of its prime factors.

$$\begin{array}{r|l} 2 & 180 \\ \hline 2 & 90 \\ \hline 3 & 45 \\ \hline 3 & 15 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

$$180 = 2 \times 2 \times 3 \times 3 \times 5$$

*(3 marks)*

Q2

Write 144 as a product of prime factors.  
Give your answer using indices.

$$\begin{array}{r|l} 2 & 144 \\ \hline 2 & 72 \\ \hline 2 & 36 \\ \hline 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$$

$$144 = 2^4 \times 3^2$$

*(3 marks)*