## Exercise 325

Solve the following logarithmic equations.

$$
\log _{2}(x+4)=3
$$

## Solution

The base is 2 , the exponent is 3 , and the result is $x+4$.

$$
\begin{gathered}
2^{3}=x+4 \\
8=x+4 \\
x=4
\end{gathered}
$$

