

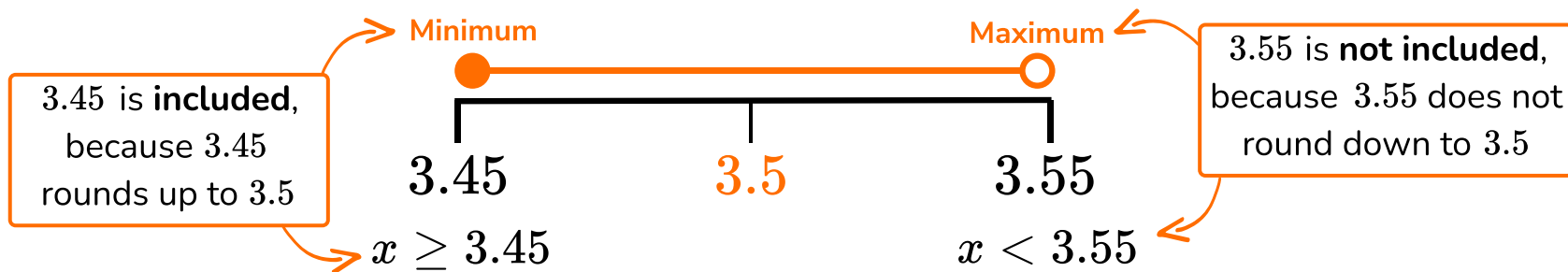
# Error Intervals

Error intervals are the **limits of accuracy** when a number has been **rounded** or **truncated**. They are the **maximum** or **minimum** values that a number could have been before being approximated via rounding or truncation.



**Example** A length  $x$  is measured as 3.5cm correct to 1 decimal place.

The numbers between 3.45 and 3.55 all round to 3.5 (1dp).



We write the error interval as a double inequality:  $3.45 \leq x < 3.55$