

# Upper and Lower Bounds

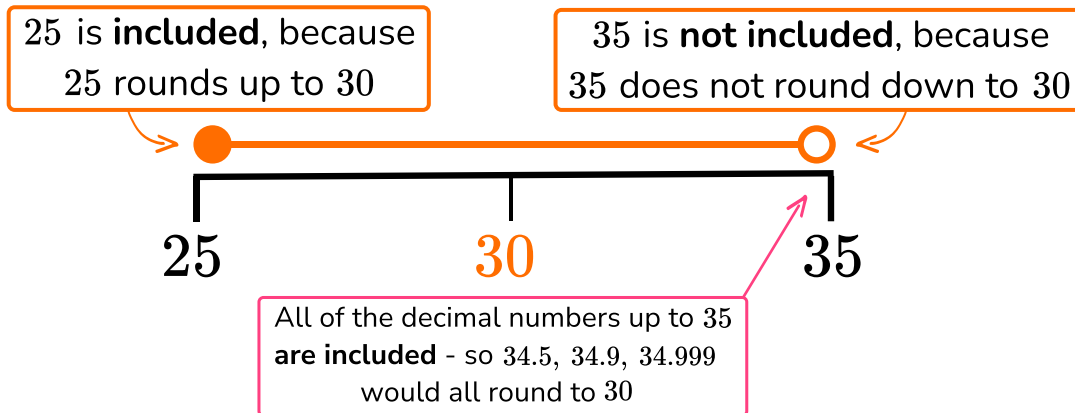
The **upper and lower bounds** of a rounded number are the biggest and smallest values that the number could have been before it was rounded.



**Example**

A number is given as 30 correct to the nearest 10

The numbers between 25 and 35 round to 30 to the nearest 10.



25 is the **lower bound**.

35 is the **upper bound**.

The error interval is  $25 \leq x < 35$