Thinking with Models _ Linear Inequality

Visible Thinking: Claim_Evidence_Resoning
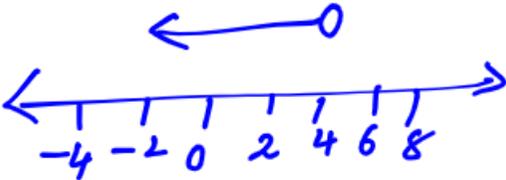
| Claim | Evidence | Reasoning |
|---|---|---|
| **The solution to the inequality** <br> **5 − 6x > −19** <br> **is** <br> **x < 4** | $5 - 6x > -19$ <br><br> $-6x > -19 - 5$ <br><br> $-6x > -24$ <br><br> $x < \dfrac{-24}{-6}$ <br><br> $x < 4$ <br><br>  <br> $\leftarrow\!\!\!-\!\!\!-\!\!\!\circ$ <br> $-4\ -2\ 0\ \ 2\ \ 4\ 6\ 8$ | if $x = 3$ then <br> $5 - 6(3) > -19$ <br> $5 - 18 > -19$ <br> $-13 > -19$ <br> Confirming the claim <br><br> Note: <br> when multiply & divide <br> by a negative, the <br> direction of inequality <br> reverse. |