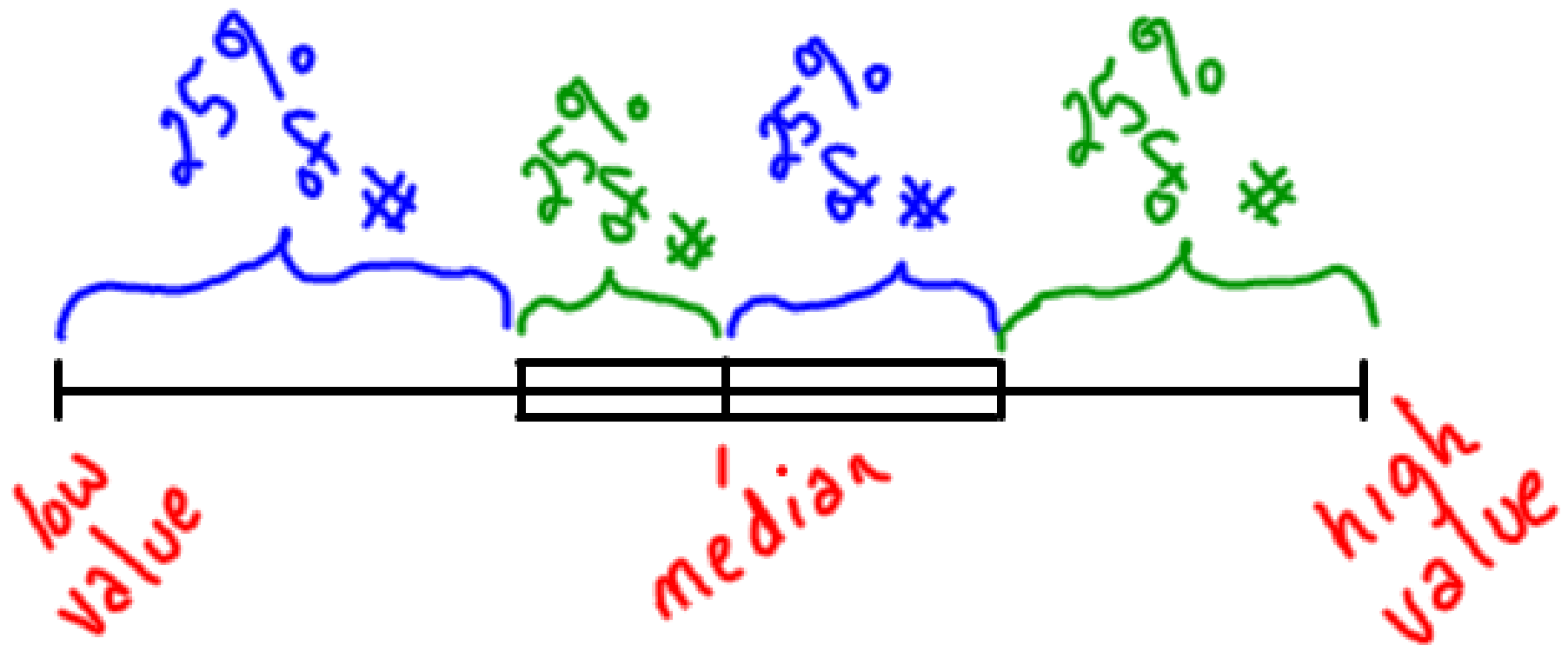


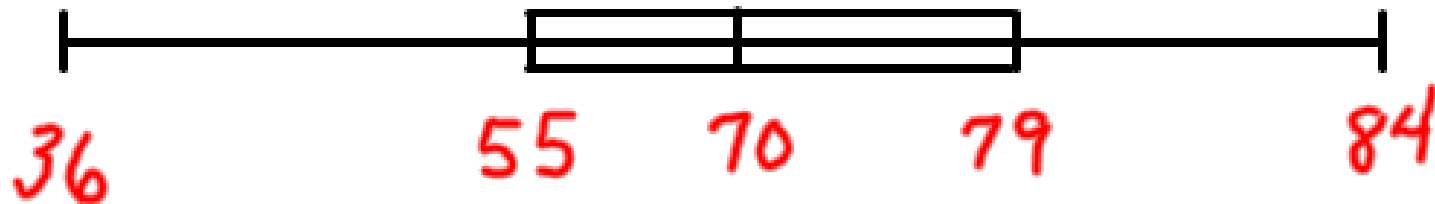
TAKS Objective 9
TEK 8.12C
Tutorial
(Grades 9, 10, and 11)

...select and use an appropriate representation for presenting and displaying relationships among collected data, including line plots, line graphs, circle graphs, bar graphs, box and whisker plots, histograms, and Venn diagrams, with and without the use of technology.

Box and Whisker Plot



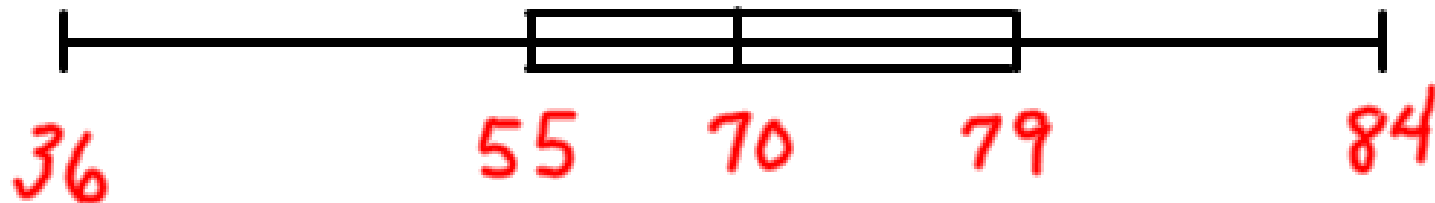
What is the range?



$$84 - 36$$

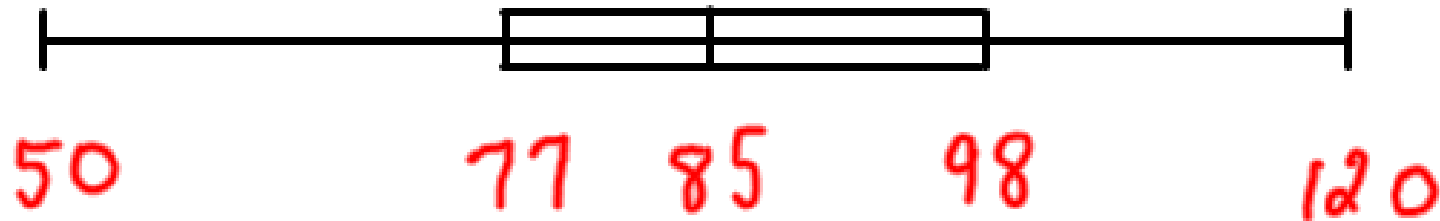
Answer: 48

What is the median?



Answer: 70

Explain the data presented in the box and whisker plot.



The lowest value is 50.

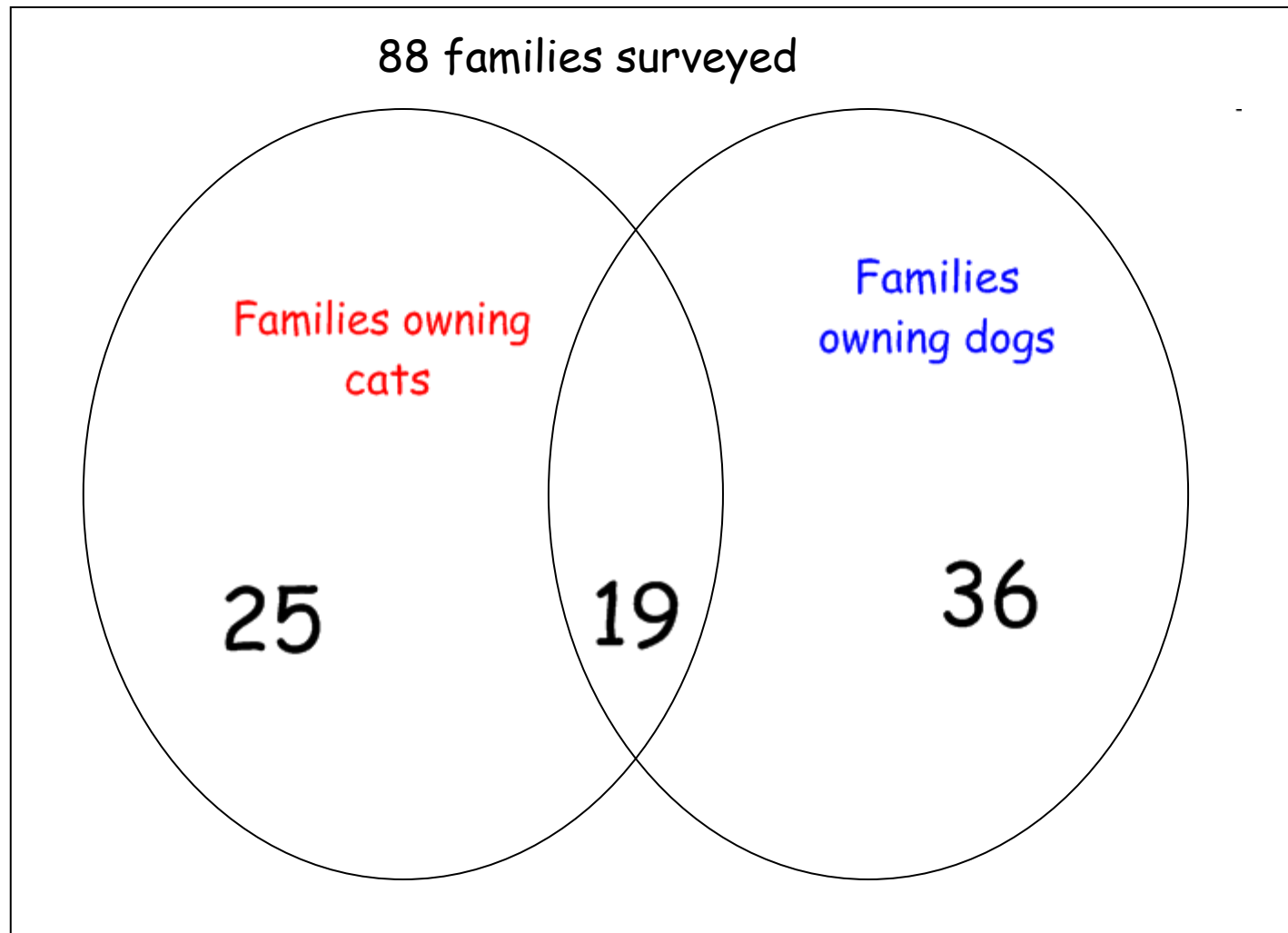
The highest value is 120.

The median is 85. The range is 70.

$\frac{1}{4}$ of the numbers are between 50 and 77.

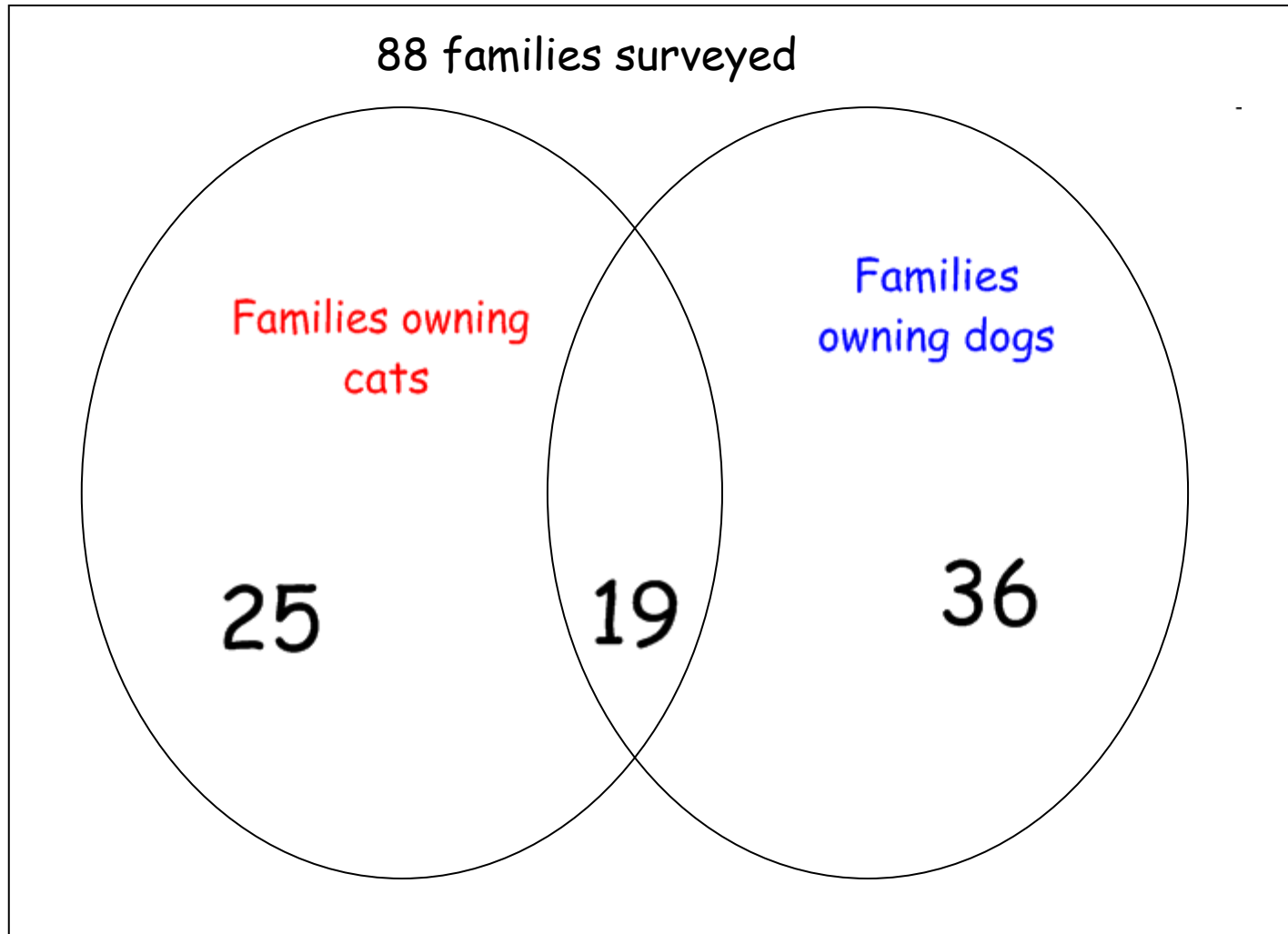
$\frac{1}{2}$ of the numbers are between 50 and 85.

How many families own both cats and dogs?



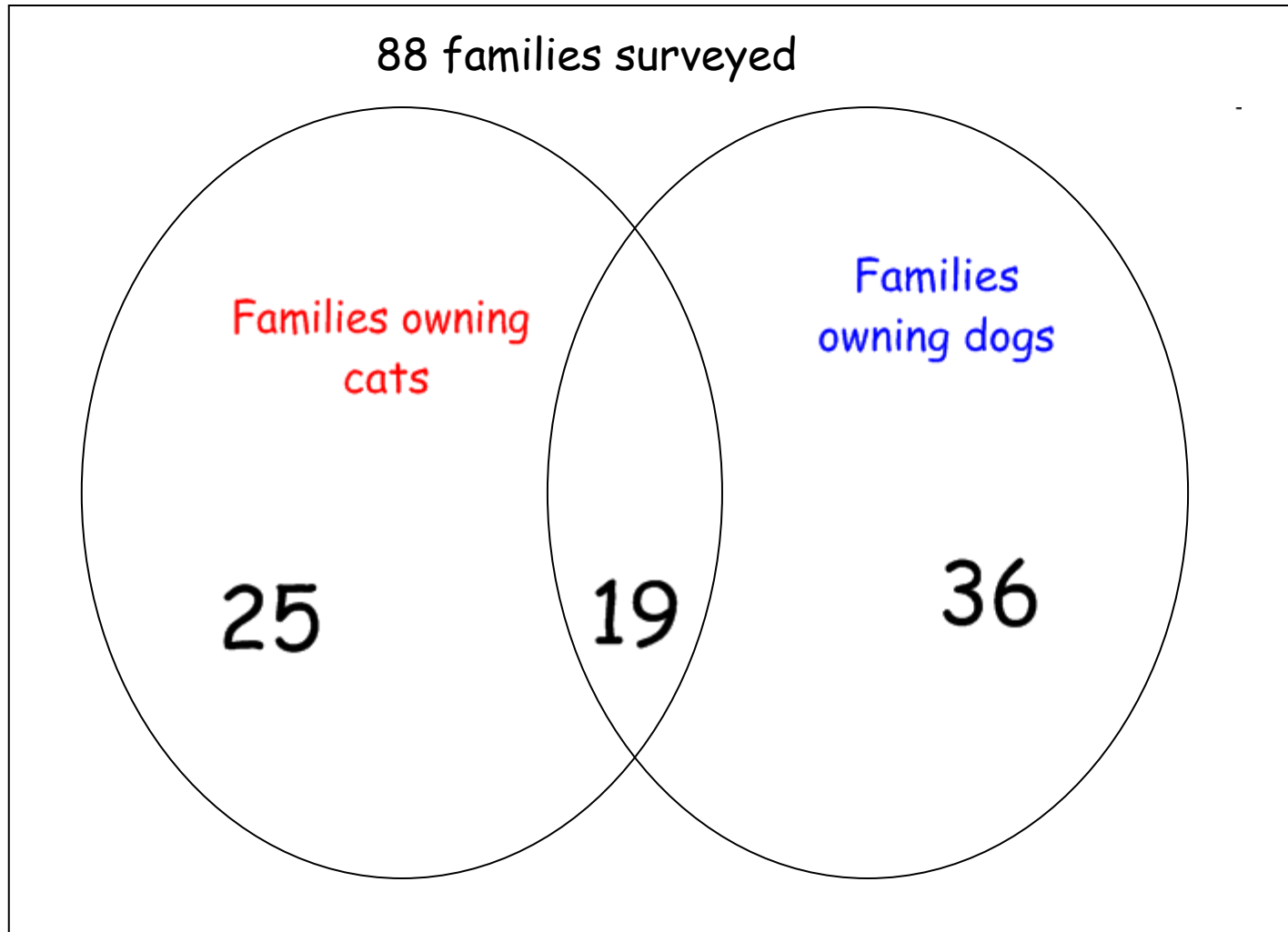
19

How many families own neither cats nor dogs?



$$88 - (25 + 19 + 36) = 8$$

How many families own cats?



$$25 + 19 = 44$$