

## Answer on Question #38208, Math, Other

### Question:

What are those two numbers whose sum is 58 and difference is 28?

### Answer:

Suppose two numbers are  $X$  and  $Y$ . Their sum equals 58 ( $X + Y = 58$ ) and difference equals 28 ( $X - Y = 28$ ):

$$\begin{cases} X + Y = 58 \\ X - Y = 28 \end{cases}$$

Sum of equations equals:

$$X + Y + X - Y = 58 + 28$$

$$2X = 86$$

$$X = 43$$

Difference of equations equals:

$$X + Y - (X - Y) = 58 - 28$$

$$2Y = 30$$

$$Y = 15$$

Answer: 43 and 15