

## Word Problems – 2 Variables

*To solve using more than one variable, you will need to find the same number of equations as variables – a system of equations.*

The sum of two consecutive even numbers is 62. Find the numbers.

*In one variable*

#1-  $x$

#2-  $x + 2$

$$x + (x + 2) = 62$$

$$2x + 2 = 62$$

$$2x = 60$$

$$x = 30; \text{ two numbers are 30 and 32}$$

*In two variables*

#1 –  $x$

#2 –  $y$

$$x + y = 62 \rightarrow y + x = 62$$

$$y - x = 2 \quad \underline{y - x = 2}$$

$$2y = 64$$

$$y = 32 \quad \therefore \rightarrow x = 30$$