

Define the variables:
Females (y)
Males (x)

Write Equation #1:
 $x + y = 785$

Write Equation #2:
 $x = 27 + y$

Solve the system.
Which method works best?

What is the question asking for?

There are 785 students in the 8th grade class. If there are 27 more females than males, how many males and females 8th graders are in the class?

There are _____ males and _____ females in the class.

Express your solution in the context of the problem.

Equation 1: There are 785 students in the 8th grade class.

Equation 2: If there are 27 more females than males.

How many Males Females in the 8th grade class.

Solution Work:
 $x + y = 785$
 $x = 27 + y$
 $(27 + y) + y = 785$
 $27 + 2y = 785$
 $-27 -27$
 $2y = 708$
Males $y = 354$
Females $x = 43$



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