## Answer on Question \#79820 - Math - Algebra

## Question

Monisha and Dave each sold magazine subscriptions as part of a fundraiser.Monisha raised $1 / 2$ as much money as Dave raised.Together they raised $\$ 213.75$. What is the total amount of money that Monisha raised?

## Solution

Let say $x$ be money that Monisha raised and $y$ be money that Dave raised. Together they earned $x+y=213.75$

Monisha raised $1 / 2$ as much money as Dave raised, it means that $x=\frac{y}{2}$
Totally we obtain the system $\left\{\begin{array}{c}x+y=213.75 \\ x=\frac{y}{2}\end{array}\right.$

$$
\begin{gathered}
\left\{\begin{array}{c}
x+y=213.75 \\
2 x=y
\end{array}\right. \\
x+2 x=213.75 \\
3 x=213.75 \\
x=71.25 \\
y=2 x=142.5
\end{gathered}
$$

Answer: Monisha raised \$71.25.

