# Answer on Question \#67938 - Math - Algebra 

## Question

$$
\begin{gathered}
x+y=10 \\
5.60 x+3.50 y=47.6
\end{gathered}
$$

## Solution

$x+y=10$
(1)
$5.60 x+3.50 y=47.6$
(2)

It follows from (1) that

$$
\begin{equation*}
x=10-y . \tag{3}
\end{equation*}
$$

Substitute $x=10-y$ into the (2):

$$
5.60(10-y)+3.50 y=47.6
$$

Open brackets and simplify:

$$
\begin{gathered}
56-5.60 y+3.50 y=47.6 ; \\
-2.10 y=-8.40
\end{gathered}
$$

Divide both sides by (-2.10):

$$
\begin{gathered}
y=-8.40:(-2.10) \\
y=4 .
\end{gathered}
$$

Substitute $\mathrm{y}=4$ into the (3):

$$
x=10-4 ;
$$

$$
x=6
$$

Finally one gets

$$
x=6, y=4
$$

Answer: $x=6, y=4$.

