Task. One of two complementary angles added to $\frac{1}{2}$ the other yields $62^{\circ}$. Find the measure of the two angles.

Solution. Let $x$ and $y$ be these angles. Since they are complementary, we have that

$$
x+y=90
$$

and so

$$
x=90-y
$$

On the other hand, by assumption, $x$ added to $\frac{1}{2}$ of $y$ yields $62^{\circ}$, so

$$
x+y / 2=62 .
$$

Substituting $x=90-y$ we obtain

$$
\begin{gathered}
90-y+y / 2=62 \\
90-y / 2=62 \\
y / 2=90-62=28 \\
y=2 * 28=56^{\circ}
\end{gathered}
$$

whence

$$
x=90-56=34^{\circ} .
$$

Answer. $34^{\circ}, 56^{\circ}$.

