On their joint tax return, Jensen and Maureen Beck calculate their adjusted gross incomes (AGIs), separately and together. Jensen's AGI is $\$ 249$ more than Maureen's. Their total AGI is $\$ 72,193$. You want to determine their individual AGIs.

1 Pick a useful variable for a quantity in this problem; state precisely what real number this variable stands for.

Let $m$ be Maureen's AGI in dollars.

2 Using your variable, write down an expression for Jensen's AGI and an expression for Maureen's AGI.
Jensen's AGI is

$$
m+249
$$

dollars, while Maureen's AGI is
$m$
dollars.

3 Using your variable, write down an equation that will allow you to solve the problem.

$$
(m+249)+m=72193
$$

4 Solve your equation.

$$
\begin{aligned}
2 m+249 & =72193 ; \\
2 m & =71944 ; \\
m & =35972 .
\end{aligned}
$$

5 State a complete answer to the problem: What is Jensen's AGI, and what is Maureen's AGI?
Since $35972+249=36221$, Jensen's AGI is
\$36,221;
and Maureen's AGI is
$\$ 35,972$.

