Let $c =$ the number of cherry pies sold and $p =$ the number of peach pies sold. Then the information leads you to two equations:

$c + p = 25$ and $4c + 3p = 84$

Multiply the first equation by -3: $-3c - 3p = -75$

Add this to the second equation: $c = 9$

Substitute into the first equation: $9 + p = 25$, so $p = 16$