Jo and David picked 92 quarts of berries at King'a Orchard. If David picked 6 more quarts than jo picked, how many quarts did Jo pick?

## Solution.

$x$ quarts of berries - Jo picked, $y$ quarts of berries - David picked. Write the equation system with two variables according to the condition of the task:

$$
\left\{\begin{array}{c}
y+x=92 \\
y-x=6
\end{array}\right.
$$

Solve the system of linear algebraic equations by the method of algebraic addition. Add term by term the equations of the system:

$$
\begin{gathered}
+\left\{\begin{array}{c}
y+x=92 \\
y-x=6
\end{array}\right. \\
y+y+x-x=92+6, \\
2 y=98, \\
y=98 \div 2 \\
y=49
\end{gathered}
$$

Insert the value $y=49$ into the first equation of the system:

$$
\begin{gathered}
49+x=92 \\
x=92-49 \\
x=43 .
\end{gathered}
$$

Answer: Jo picked 43 quarts of berries.

