### 10.2 Key Concepts $\mathbf{3}$ Checking Solutions to Equations Worked Example

Example: Check whether $x=-1$ is a solution for $-3 x-4=5+6 x$.
Solution: Substitute $x=-1$ into both sides of the equation.

$$
\begin{aligned}
\text { L.S. } & =-3 x-4 & \text { R.S. } & =5+6 x \\
& =-3(-1)-4 & & =5+6(-1) \\
& =3-4 & & =5-6 \\
& =-1 & & =-1
\end{aligned}
$$

Since L.S. $=$ R.S., $x=-1$ is a solution for $-3 x-4=5+6 x$.

## Practice:

1. Check whether $y=-2$ is a solution for $11 y+3=-5+7 y$.
2. Check whether $w=-3$ is a solution for $5(w+2)=2(3 w-1)$.

Answers: 2. yes, 2. no

