## 10.1 Key Concepts 4 Checking Solutions to Equations Worked Example

**Example**: Check whether x = -1 is a solution for 3x - 2 = 7.

**Solution**: Substitute x = -1 into both sides of the equation.

R.S. = 7

L.S. = 
$$3x - 2$$
  
=  $3(-1) - 2$ 

$$= -3 - 2$$

Since the L.S.  $\neq$  R.S., x = -1 is not a solution for 3x - 2 = 7.

Practice:

**1.** Check whether y = 3 is a solution for 8y + 5 = 29.

**2.** Check whether t = -2 is a solution for  $\frac{t}{3} + 1 = -2$ .

Answers: 1. yes, 2. no