

Name: _____

Date: _____

x Check Solution: Answers

- (1) Determine whether $x = 5$ is a solution to the equation $9x = 36$:

$$\begin{aligned}\text{LHS} &= 9x & \text{RHS} &= 36 \\ &= 9 \times 5 \\ &= 45\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 5$ is not a solution to the equation.

- (2) Determine whether $x = 6$ is a solution to the equation $2x = 16$:

$$\begin{aligned}\text{LHS} &= 2x & \text{RHS} &= 16 \\ &= 2 \times 6 \\ &= 12\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 6$ is not a solution to the equation.

- (3) Determine whether $x = 4$ is a solution to the equation $2x = 8$:

$$\begin{aligned}\text{LHS} &= 2x & \text{RHS} &= 8 \\ &= 2 \times 4 \\ &= 8\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 4$ is a solution to the equation.

- (4) Determine whether $x = 7$ is a solution to the equation $2x = 14$:

$$\begin{aligned}\text{LHS} &= 2x & \text{RHS} &= 14 \\ &= 2 \times 7 \\ &= 14\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 7$ is a solution to the equation.

- (5) Determine whether $x = 7$ is a solution to the equation $9x = 63$:

$$\begin{aligned}\text{LHS} &= 9x & \text{RHS} &= 63 \\ &= 9 \times 7 \\ &= 63\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 7$ is a solution to the equation.

- (6) Determine whether $x = 6$ is a solution to the equation $7x = 42$:

$$\begin{aligned}\text{LHS} &= 7x & \text{RHS} &= 42 \\ &= 7 \times 6 \\ &= 42\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 6$ is a solution to the equation.

- (7) Determine whether $x = 2$ is a solution to the equation $9x = 18$:

$$\begin{aligned}\text{LHS} &= 9x & \text{RHS} &= 18 \\ &= 9 \times 2 \\ &= 18\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 2$ is a solution to the equation.

- (8) Determine whether $x = 6$ is a solution to the equation $10x = 60$:

$$\begin{aligned}\text{LHS} &= 10x & \text{RHS} &= 60 \\ &= 10 \times 6 \\ &= 60\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 6$ is a solution to the equation.

- (9) Determine whether $x = 9$ is a solution to the equation $4x = 36$:

$$\begin{aligned}\text{LHS} &= 4x & \text{RHS} &= 36 \\ &= 4 \times 9 \\ &= 36\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 9$ is a solution to the equation.

- (10) Determine whether $x = 6$ is a solution to the equation $2x = 12$:

$$\begin{aligned}\text{LHS} &= 2x & \text{RHS} &= 12 \\ &= 2 \times 6 \\ &= 12\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 6$ is a solution to the equation.

- (11) Determine whether $x = 2$ is a solution to the equation $6x = 30$:

$$\begin{aligned}\text{LHS} &= 6x & \text{RHS} &= 30 \\ &= 6 \times 2 \\ &= 12\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 2$ is not a solution to the equation.

- (12) Determine whether $x = 9$ is a solution to the equation $4x = 36$:

$$\begin{aligned}\text{LHS} &= 4x & \text{RHS} &= 36 \\ &= 4 \times 9 \\ &= 36\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 9$ is a solution to the equation.

- (13) Determine whether $x = 11$ is a solution to the equation $4x = 40$:

$$\begin{aligned}\text{LHS} &= 4x & \text{RHS} &= 40 \\ &= 4 \times 11 \\ &= 44\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 11$ is not a solution to the equation.

- (14) Determine whether $x = 2$ is a solution to the equation $5x = 25$:

$$\begin{aligned}\text{LHS} &= 5x & \text{RHS} &= 25 \\ &= 5 \times 2 \\ &= 10\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 2$ is not a solution to the equation.

- (15) Determine whether $x = 7$ is a solution to the equation $10x = 100$:

$$\begin{aligned}\text{LHS} &= 10x & \text{RHS} &= 100 \\ &= 10 \times 7 \\ &= 70\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 7$ is not a solution to the equation.

- (16) Determine whether $x = 10$ is a solution to the equation $5x = 50$:

$$\begin{aligned}\text{LHS} &= 5x & \text{RHS} &= 50 \\ &= 5 \times 10 \\ &= 50\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 10$ is a solution to the equation.

- (17) Determine whether $x = 0$ is a solution to the equation $10x = 30$:

$$\begin{aligned}\text{LHS} &= 10x & \text{RHS} &= 30 \\ &= 10 \times 0 \\ &= 0\end{aligned}$$

\therefore Since $\text{LHS} \neq \text{RHS}$, $x = 0$ is not a solution to the equation.

- (18) Determine whether $x = 3$ is a solution to the equation $10x = 30$:

$$\begin{aligned}\text{LHS} &= 10x & \text{RHS} &= 30 \\ &= 10 \times 3 \\ &= 30\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 3$ is a solution to the equation.

- (19) Determine whether $x = 6$ is a solution to the equation $4x = 24$:

$$\begin{aligned}\text{LHS} &= 4x & \text{RHS} &= 24 \\ &= 4 \times 6 \\ &= 24\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 6$ is a solution to the equation.

- (20) Determine whether $x = 2$ is a solution to the equation $4x = 8$:

$$\begin{aligned}\text{LHS} &= 4x & \text{RHS} &= 8 \\ &= 4 \times 2 \\ &= 8\end{aligned}$$

\therefore Since $\text{LHS} = \text{RHS}$, $x = 2$ is a solution to the equation.