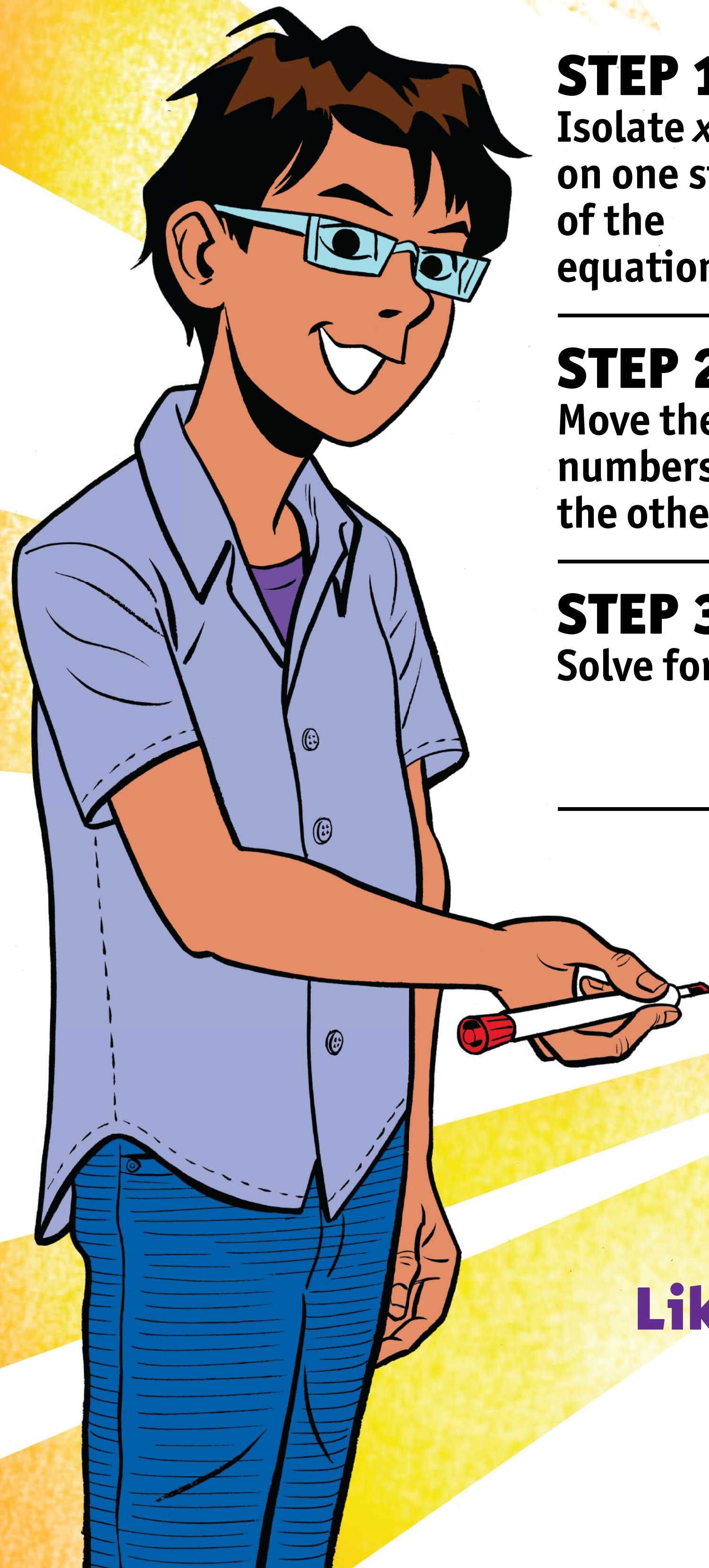


Solving the Unknown with Algebra



STEP 1:

Isolate x
on one side
of the
equation.

$$\begin{array}{r} 6x - 26 \\ -2x \\ \hline \end{array} = \begin{array}{r} 2x + 6 \\ -2x \\ \hline \end{array}$$

Subtract
 $2x$ from
BOTH
SIDES.

STEP 2:

Move the
numbers to
the other side.

$$\begin{array}{r} 4x - 26 \\ +26 \\ \hline \end{array} = \begin{array}{r} 6 \\ +26 \\ \hline \end{array}$$

Add 26
to **BOTH**
SIDES.

STEP 3:

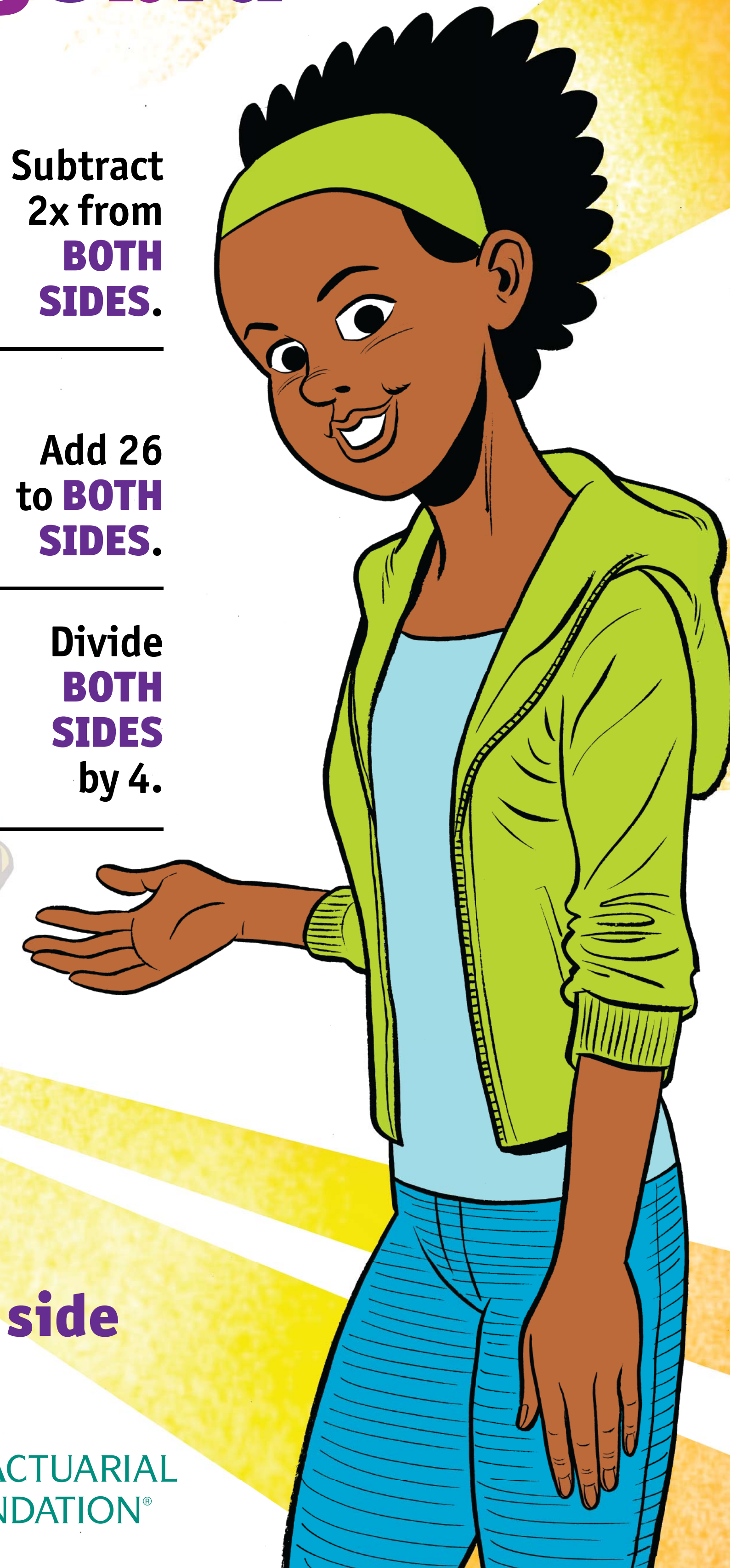
Solve for x .

$$\begin{array}{r} 4x \\ /4 \\ \hline \end{array} = \begin{array}{r} 32 \\ /4 \\ \hline \end{array}$$

Divide
BOTH
SIDES
by 4.

x

8



**Like balancing a scale, whatever you do on one side
of an equation, you must do on the other!**