EXAMPLE 2 Solving Equations Using Multiplication or Division

a. Solve
$$-\frac{3}{4}n = -2$$
.

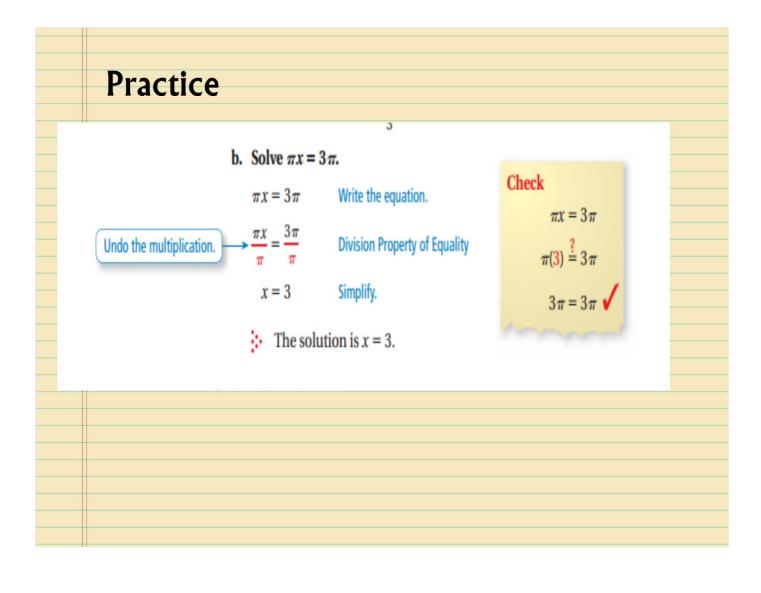
$$-\frac{3}{4}n = -2$$
 Write the equation.

Use the reciprocal.
$$\rightarrow -\frac{4}{3} \cdot \left(-\frac{3}{4}n\right) = -\frac{4}{3} \cdot (-2)$$
 Multiplication Property of Equality

$$n = \frac{8}{3}$$

Simplify.

$$\therefore$$
 The solution is $n = \frac{8}{3}$.



EXAMPLE 3 Identifying the Solution of an Equation

What value of k makes the equation $k+4 \div 0.2 = 5$ true?

$$k + 4 \div 0.2 = 5$$
 Write the equation.

$$k + 20 = 5$$
 Divide 4 by 0.2.

Subtraction Property of Equality

$$k = -15$$

Simplify.

ightharpoonup The correct answer is lacktriangle.