

SOLVING ONE-STEP EQUATIONS

ANSWERS

MULTIPLY AND DIVIDE WITH DECIMALS

Helpful Example

$$r \div 1.2 = 7.2$$

GET THE NUMBERS AND VARIABLES ON OPPOSITE SIDES OF THE EQUAL SIGN.

TO MOVE A NUMBER OR VARIABLE, USE THE OPPOSITE OPERATION. MULTIPLICATION AND DIVISION ARE OPPOSITES. SEE HOW WE MULTIPLIED BOTH SIDES BY 1.2?

$$\begin{array}{r} r \div 1.2 = 7.2 \\ \hline \times 1.2 \\ \hline r \div 1 = 8.64 \\ = 8.64 \end{array}$$

CHANGE r TO 8.64 AND SEE IF THE ANSWER MAKES SENSE:

$$8.64 \div 1.2 = 7.2$$

TRUE

Now your turn. Solve each equation.

$$1. \quad \begin{array}{r} h \times 1.6 = 6.4 \\ \hline \div 1.6 \\ \hline \end{array} \quad \begin{array}{r} 1.6 \overline{) 6.4} \\ \underline{3.2} \\ 3.2 \\ \underline{3.2} \\ 0 \end{array}$$

$$h = 4$$

$$2. \quad g \div 3.5 = 21$$

$$g = 73.5$$

$$3. \quad 0.4 \times n = 2.8$$

$$n = 7$$

$$4. \quad 5.6 = y \div 2.8$$

$$15.68 = y$$

$$5. \quad 39.2 = 7 \times t$$

$$5.6 = t$$

$$6. \quad 13.2 = k \div 0.3$$

$$3.96 = k$$

ANOTHER WAY OF SHOWING MULTIPLICATION AND DIVISION: $6 \times d = 6d$ OR $w \div 1.9 = \frac{w}{1.9}$

$$7. \quad \frac{b}{2.3} = 9.2$$

$$b = 21.16$$

$$8. \quad 4.68 = 0.6e$$

$$7.8 = e$$

$$9. \quad 9p = 19.71$$

$$p = 2.19$$

$$10. \quad 45.6 = \frac{m}{8}$$

$$364.8 = m$$

$$11. \quad \frac{u}{0.5} = 2.75$$

$$u = 1.375$$

$$12. \quad 51.2 = 6.4x$$

$$8 = x$$