2-8 Division Equations

Pg. 85 3-21-18

Mar 15-9:00 AM

Multiplication is the inverse of division. When an equation contains division, use multiplication to “undo” the division.

Mar 15-9:02 AM

Solve the equation. Check your answer.

$(7)\frac{x}{7} = 5(7)$

$x = 35$

$\frac{1}{7} \cdot \frac{7}{1} = \frac{7}{7} = 1$

$\frac{35}{7} \stackrel{?}{=} 5$

$5 = 5$ ✓

Mar 15-9:03 AM

Solve the equation. Check your answer.

$(6)13 = \frac{p}{6}(6)$

$78 = p$

$p = 78$

$13 \times 6 = 78$

$13 = \frac{78}{6}$

$13 = 13$ ✓

$78 \div 6 = 13$

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Solve the equation. Check your answer.

$2 \cdot \frac{x}{2} = 9 \cdot 2$

$x = 18$

$\frac{18}{2} \stackrel{?}{=} 9$

$9 = 9$ ✓

Mar 15-9:03 AM

Solve the equation. Check your answer.

$(4)72 = \frac{p}{4}(4)$

$288 = p$

$p = 288$

$72 \times 4 = 288$

$72 \stackrel{?}{=} \frac{288}{4}$

$72 = 72$ ✓

$288 \div 4 = 072$

Mar 15-9:03 AM

Solve each equation. Check your answers.

A $\frac{y}{5} = 4$ (5)

$y = 20$

$\frac{20}{5} \stackrel{?}{=} 4$

$4 = 4$ ✓

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B $12 = \frac{z}{4}$

$12 \stackrel{?}{=} \frac{48}{4}$

$12 = 12$ ✓

$4 \cdot \frac{z}{4} = 12 \cdot 4$

$z = 48$

$4\overline{)48}$ 12, -4, 08

12 × 4 = 48

Mar 15-9:06 AM

At Elk Meadows Park an aspen tree is one-third the height of a pine tree.

height of aspen = $\frac{\text{height of pine}}{3}$

The aspen tree is 14 feet tall. How tall is the pine tree?

Let h represent the height of the pine tree.

14 (3) $14 = \frac{h}{3}$ (3)

$\times 3$

42

$42 = h$

$h = 42$ ft.

Mar 15-9:04 AM

Jamie weighs one-half as much as her father.

Jamie's weight = $\frac{\text{father's weight}}{2}$

Jamie weighs 95 pounds. How many pounds does her father weigh?

Let w represent her father's weight.

95 (2) $95 = \frac{w}{2}$ (2)

$\times 2$

190

$190 = w$

$w = 190$ pounds.

Mar 15-9:04 AM

Solve each equation. Check your answers.

1. $\frac{x}{10} = 7$ (10) $x = 70$
2. $8 = \frac{x}{4}$ (4) $x = 32$
3. $\frac{x}{9} = 1$ (9) $x = 9$
4. $\frac{x}{15} = 7$ (15) $x = 105$
5. The area of Sherry's flower garden is one-fourth the area of her vegetable garden. The area of the flower garden is 17 square feet. Let x represent the area of her vegetable garden. Find the area of her vegetable garden?

$F.G. = \frac{V}{4}$

(4) $17 = \frac{V}{4}$ (4)

$\times 4$

68

$V = 68$

$\frac{S}{10} = \frac{3}{30}$ (10) $\frac{10}{1}$

$S = \frac{30}{30}$

$S = 1$

Mar 15-9:05 AM

H.W: Pg. 86 #'s 1-26 all

Mar 21-10:06 AM