3.3 (pg. 95) Solving Equations: ax = c

Division Property of Equality

If you divide each side of an equation by the same NON-ZERO number, the two sides remain equal.

<u>Reminder:</u> You cannot divide any number by 0.

3.3 (pg. 95) Solving Equations: ax = c <u>Example:</u> Solve each equation. Check your solution.

$$\chi = -8$$





3.3 (pg. 95) Solving Equations: ax = cExample: Solve each equation. Check your solution. $\frac{-68}{17} = \frac{17c}{17}$ -4 = C



3.3 (pg. 95) Solving Equations: ax = cExample: Solve each equation. Check your solution. $-\frac{180}{12} = \frac{12f}{12}$ $-\frac{15}{15} = f$



3.4 (pg. 98) Solving Equations: x ÷ a = b

<u>Multiplication Property of Equality</u>

If you multiply each side of an equation by the same number, the two sides remain equal.

3.4 (pg. 98) Solving Equations:
$$x \div a = b$$

Example: Solve each equation. Check your solution.
 $14 = \frac{a}{-7} \cdot -7$
 $-7 -7$
 $-98 = 3$

3.4 (pg. 98) Solving Equations: $x \div a = b$ Example: Solve each equation. Check your solution. $-12 \cdot -12 \qquad 13$ $-12 \cdot -12 \qquad 13$ X = -156 $1 \cdot 56$



3.4 (pg. 98) Solving Equations: $x \div a = b$ Example: Solve each equation. Check your solution. $-15 = \begin{array}{c} f \\ -14 \end{array} + \begin{array}{c} 15 \\ -210 \end{array} + \begin{array}{c} 15 \\ -210 \end{array}$

3.4 (pg. 98) Solving Equations:
$$x \div a = b$$

Example: Solve each equation. Check your
solution.
 $-32 = \frac{c}{22} \cdot 72$
 $722 = \frac{37}{22} \cdot \frac{37}{22} + \frac{37}{22} + \frac{37}{22} + \frac{37}{22} + \frac{37}{22} + \frac{37}{22} + \frac{37}{24} + \frac{37}{24}$

3.4 Solving Equations x ÷ a = b.notebook