

Name: Guide

Date: \_\_\_\_\_

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 Properties of Equalities
 

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Identify the property of equality that justifies each missing step or equation in each of the following tables.

1.

Equation	Steps
1. $3x + 12 = 8x - 18$	Given
2. $12 = 5x - 18$	<i>Subtraction Prop. of Eq.</i>
3. $30 = 5x$	Addition Property of Equality
4. $6 = x$	

2.

Equation	Steps
1. $3k + 5 = 17$	Given
2. $3k = 12$	
3.	Division Property of Equality

3.

Equation	Steps
1. $-6a - 5 = -95$	Given
2. $-6a = -90$	<i>Addition Prop. of Eq.</i>
3. $a = 15$	<i>Division Prop. of Eq.</i>

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4.

Equation	Steps
1. $3(5x + 1) = 13x + 5$	Given
2.	
3.	
4.	
5.	

5.

Equation	Steps
1. $7y - 84 = 2y + 61$	Given
2. $5y - 84 = 61$	Subtraction Prop. of Eq.
3. $5y = 145$	Addition Prop. of Eq.
4. $y = 29$	Division Prop. of Eq.

6.

Equation	Steps
1. $4(5n + 7) - 3n = 3(4n - 9)$	Given
2.	
3.	
4.	
5.	
6.	