

Solving Equation by using Properties of Equality 2

Problem 1	$2x - 4 = 12$	Problem 2	$-2 = \frac{x}{3} + 7$
a) What side of the equation is the variable on?	Left Right	a) What side of the equation is the variable on?	Left Right
b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)	and	b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)	and
c) what should you do first to solve?		c) what should you do first to solve?	
d) complete the operation	$2x - 4 = 12$	d) complete the operation	$-2 = \frac{x}{3} + 7$
e) the new equation is		e) the new equation is	
f) what should you do next to solve?		f) what should you do next to solve?	
g) what is the solution?		g) what is the solution?	

Problem 3	$\frac{x}{5} + 4 = -1$	Problem 4	$32 = 5 - 3x$
a) What side of the equation is the variable on?	Left Right	a) What side of the equation is the variable on?	Left Right
b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)	and	b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)	and
c) what should you do first to solve?		c) what should you do first to solve?	
d) complete the operation	$\frac{x}{5} + 4 = -1$	d) complete the operation	$32 = 5 - 3x$
e) the new equation is		e) the new equation is	
f) what should you do next to solve?		f) what should you do next to solve?	
g) what is the solution?		g) what is the solution?	

Problem 5	$2x + 1 = 5$	Problem 6	$4 - \frac{x}{2} = 10$
a) What side of the equation is the variable on?	Left Right	a) What side of the equation is the variable on?	Left Right
b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)	and	b) What else is on the same side of the equation as the variable? (Identify addition or subtraction first)?	and
c) what should you do first to solve?		c) what should you do first to solve?	
d) complete the operation	$2x + 1 = 5$	d) complete the operation	$4 - \frac{x}{2} = 10$
e) the new equation is		e) the new equation is	
f) what should you do next to solve?		f) what should you do next to solve?	
g) what is the solution?		g) what is the solution?	