

Solving Equation by using Properties of Equality

Problem 1	$x - 5 = 12$	Problem 2	$-6 = x - 8$
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?		b) What else is on the same side of the equation as the variable?	
c) what should you do to solve?		c) what should you do to solve?	
d) complete the operation	$x - 5 = 12$	d) complete the operation	$-6 = x - 8$
e) what is the solution?		e) what is the solution?	

Problem 3	$x + 8 = -4$	Problem 4	$15 = 10 + x$
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?		b) What else is on the same side of the equation as the variable?	
c) what should you do to solve?		c) what should you do to solve?	
d) complete the operation	$x + 8 = -4$	d) complete the operation	$15 = 10 + x$
e) what is the solution?		e) what is the solution?	

Problem 5	$\frac{x}{5} = -9$	Problem 6	$-7 = \frac{x}{-4}$
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?		b) What else is on the same side of the equation as the variable?	
c) what should you do to solve?		c) what should you do to solve?	
d) complete the operation	$\frac{x}{5} = -9$	d) complete the operation	$-7 = \frac{x}{-4}$
e) what is the solution?		e) what is the solution?	