\* FOR REVISIONS: WHY IS YOUR ANSWER
DIFFERENT THAN THE ONE IN THE ANSWER
KEY? WHAT DO YOU NEED TO REMEMBER
ABOUT THIS TYPE OF PROBLEM IN THE

## **PERFORMANCE TASK - LINEAR EQUATIONS (PART 1)**

1. Is the following equation true if x = 5?

SUBSTITUTE 5 IN FOR X

$$6(x-2) = 18$$

2. Is the following equation true if x = -2?

SUBSTITUTE -2 IN FOR X

$$3x - 7 + 5x = 9$$

$$-10 - 7 - 10 = 9$$

3. Is the following equation true if x = 7?

SUBSTITUTE 7 IN FOR X

$$\frac{4(x-4)}{3} + 8 = x + 5$$

$$\frac{4(7-4)}{3} + 8 = (7)+5$$

$$\frac{4.3}{3} + 8 = 12$$

TRUE

Use the following table to help answer questions 4-5.

Addition Property of Equality	If A = B, then A + C = B + C
Subtraction Property of Equality	If A = B, then A - C = B - C
Multiplication Property of Equality	If $A = B$ , then $A \cdot C = B \cdot C$
Division Property of Equality	
	If A = B, then $\frac{A}{C} = \frac{R}{C}$

4. (a) Solve for x:

MATHER MAYS TO SOLVE THIS.

(b) What was the first property that you used to solve the equation?

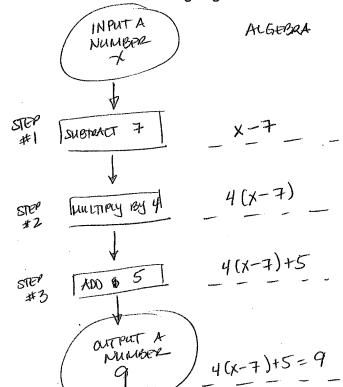
5. (a) Solve for x:  $2^{\circ} \frac{5x-6}{2} = 7 \cdot 2$ 

$$5x-6=14$$
  
+6 +6  
 $5x=20$   
 $5=\frac{14}{5}$ 

(b) What was the first property that you used to solve the equation?

NAME:

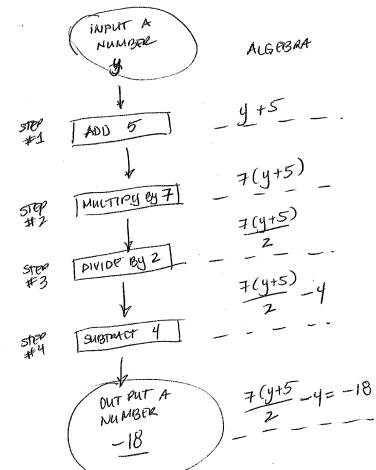
Use the following Algebra Machine to solve x. Show your steps.



Use this space to solve the equation: 4(x-7) + 5 = 9 (reverse) - 5 - 5 (x-7) = 4 (x-7) = 4 (x-7) = 4 (x-7) = 4 (x-7) = 4

 $\begin{array}{c} X - \overline{A} = 1 \\ + \overline{X} + \overline{1} \\ \text{stcp} + 1 \end{array}$ 

Use the following Algebra Machine to solve x. Show your steps.



Use this space to solve the equation: