MPM1D0 Unit 2: Homework Quiz 1

Victim: Mr. Solutions

- 1. Give one example of each of the following: (5 /5)
- Well done Mr. S. !!
- $\frac{21}{21}$

- (a) Expression
- 3xy 5x2y
- (b) Equation that is Solved for the Unknown $\frac{4x-7=19}{}$
- (c) Equation that Expresses a Mathematical Relationship
- $c^2 = a^2 + b^2$

(d) Identity

$$n^2 + n^2 = 2n^2$$

- (e) A Value that Satisfies the Equation $x^2 = 16$
- x=4 or x=-4

- 2. For each equation. (16/16)
 - (i) Complete the flowchart.
 - (ii) Solve the equation by performing operations to **both sides**. (B.S. \rightarrow Abbreviation for "both sides")

Solve the Equation by

(iii) Check your solution.

Equation	Flowchart	Performing Operations to B.S.	Check the Solution	
(a) $x-7=-2$	x 5 v +7 v +7 v -2 -2	x-7=-2 $x-7+7=-2+7$ $x=5$	L.H.S. R.H.S. $ \begin{array}{ccc} \chi & -7 & -2 \\ & = 5 & -7 \end{array} $ $ = -2 $ Since L.H.S. = RHS., $ \chi = 5 \text{ is the solution} $	
(b) $3x + 6 = 11$	x 3 ÷3 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$3x+6=11$ $3x+6-6=11-6$ $3x=5$ $3x=5$ $x=\frac{5}{3}$ $x=\frac{5}{3}$	L.H.S. R.H.S. $3x+6$ $= \frac{3}{3} + 6$ $= \frac{5}{3} + 6$ $= 5+6$ $= 11$ Since L.H.S. = R.H.S. $x = \frac{5}{3} \text{ is the solution}$	n.