

FEBRUARY 26, 2016

**UNIT 5: LINEAR EQUATIONS AND
INEQUALITIES**

**SECTION 6.2:
SOLVING EQUATIONS BY
USING BALANCE
STRATEGIES**

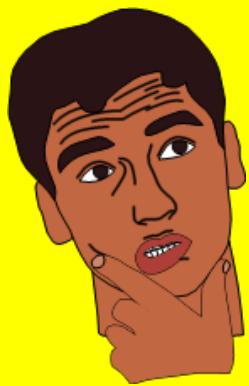
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*MATH 9***



WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Patterns and Relations 3" OR "PR3" which states:

"Model and solve problems using linear equations in a variety of forms ($ax = b$; $ax + b = c$; $ax + b = cx + d$; $a(bx + c) = d$ ($ex + f$) etc.) concretely, pictorially and symbolically where a , b , c , d , e and f are rational numbers."



What does THAT mean???

SCO PR3 means ALGEBRA!!!



HOMEWORK QUESTIONS???

(pages 281 / 282 / 283, #12, #14, #18 & #23)

12. $P = \text{person}$ Hall A : $50P$
Hall B : $2000 + 40P$

a) $50P = 2000 + 40P$

b) $10P = 2000$

$$P = 200$$

c)	<u>LS</u>	<u>RS</u>
	$50P$	$2000 + 40P$
	$50(200)$	$2000 + 40(200)$
	10000	$2000 + 8000$ 10000

$$LS = RS \therefore P = 200.$$

HOMEWORK QUESTIONS???

(pages 281 / 282 /283, #12, #14, #18 & #23)

$$18. \quad A : 199 + 0.20K$$

$$B : 149 + 0.25K$$

$$a) \quad 199 + 0.20K = 149 + 0.25K$$

$$b) \quad 199 = 149 + 0.05K$$

$$50 = 0.05K$$

$$1000K_m = K$$

c)	L.S	R.S
	$199 + 0.20K$	$149 + 0.25K$
	$199 + 0.20(1000)$	$149 + 0.25(1000)$
	$199 + 200$	$149 + 250$
	399	399

$$L.S = R.S \therefore K = 1000.$$

HOMEWORK QUESTIONS???

(pages 281 / 282 /283, #12, #14, #18 & #23)

$$23. A : 28 + 0.45(m - 30)$$

$$B : 40 + 0.25m$$

$$a) 28 + 0.45(m - 30) = 40 + 0.25m$$

$$b) 28 + 0.45m - 13.5 = 40 + 0.25m$$

$$14.5 + 0.45m = 40 + 0.25m$$

$$14.5 + 0.20m = 40$$

$$\begin{array}{r} \cancel{0.20m} = 25.5 \\ \hline \cancel{0.20} \qquad \quad 0.20 \end{array}$$

$$m = 127.5$$

c) LS	RS
$28 + 0.45(m - 30)$	$40 + 0.25m$
$28 + 0.45(127.5 - 30)$	$40 + 0.25(127.5)$
$28 + 0.45(97.5)$	$40 + 31.875$
$28 + 43.875$	71.875
71.875	

$$LS = RS \therefore m = 127.5.$$

STUDY FOR MONDAY'S QUIZ BY PRACTICING!