Algebra 2 Bellwork Thursday, October 29, 2015

1. Use a sheet of graph paper to graph this system of inequalities. Shade the feasible region with a separate color.

$A \geq 0$ $M \geq 0$ $A + M \leq 5$ $6A + 9M \leq 36$

2. State the coordinates of the corners of the feasible region.

3. Which of the corners from problem #2 maximizes the following Objective Function?

Objective Function: $15A + 50M = T$

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1ST quadrant

A-INT = 5
M-INT = 5

A-INT = 6
M-INT = 4

2. State the coordinates of the corners of the feasible region.

(0,0) (5,0) (3,2) (0,4)

3. Which of the corners from problem #2 maximizes the following Objective Function?

Objective Function: $15A + 50M = T$

A	M	15A + 50M
0	0	0
5	0	75
3	2	145
0	4	200

MAXIMUM OCCURS WHEN $A = 0$ and $M = 4$