Daily Agenda

Learning Target: I can use linear programming to optimize a function based on a real world scenario.

Today in Class
Number Talk
2.4 Formative
Continue Linear Programming

Assessments
Unit 2 Test - 9/30
Calc and No Calc

Courage is exhilarating.
-Eleanor Roosevelt

Nov 15-8:24 PM

Number Talks

27×18

486

Shannon
$27 \times 10 = 270$
$+ 27 \times 8 = 216$
486

Kate
$20 \times 18 = 360$
$7 \times 10 = 70$
$7 \times 8 = 56$
$360 + 70 = 430$
$+ 56$
486

Chloe
$30 \times 18 = 540$
$18 \times 3 = -54$
486

Tanner
$27 \times 10 = 270$
$27 \times 10 = 270$
$27 \times 2 = -54$
$540 - 54 = 486$

Sep 23-7:17 AM

2.4 Linear Programming

Muffins

Baking a tray of banana muffins takes 4 cups of milk and 3 cups of flour. Baking a tray of blueberry muffins takes 2 cups of milk and 3 cups of flour. A baker has 16 cups of milk and 15 cups of wheat flour. He makes $3 profit per tray of banana muffins and $2 profit per tray of blueberry muffins. How many trays of each type of muffin should the baker make to maximize profit?

Sep 25-1:47 PM

Constraints **Objective Function**

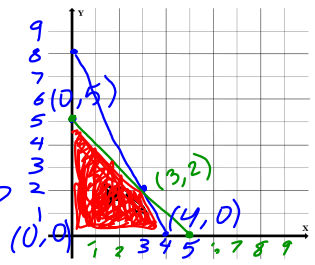
Sep 25-1:50 PM

Constraints

$4x + 2y = 16$
$3x + 3y = 15$

Objective Function

$3x + 2y = P$



Sep 25-1:51 PM

Strategies for Graphing

- find x & y intercepts

Profit

- cost already taken out

Sep 27-11:41 AM