Unit 3 - Solving Equations

Day 9: Modelling with Algebra (second day)

Today we will...

Define variables and create equations to solve realworld problems.

Ex 1. Lake Ontario is four times as deep as lake Erie. The sum of their depths is 300m. What is the depth of each lake?

Ex. 2 Ben plays on the Eastwood basketball team. He gets 3 points if he gets a basket outside the 3 point line and 2 points if he gets a basket inside the 3 point line. He scored 61 baskets giving him 140 points in the season. How many 3 point and 2 point shots did he make in his season?

 $\underline{\text{Ex. 3}}$ You make a new coffee mixture that combines Coffee A and Coffee B that sells for \$5.56/lb. If Coffee A cost \$6.15/lb and Coffee B cost \$3.20/lb, how much of each kind of Coffee are needed to make up a 15 lbs mixture?

 $\underline{\text{Ex. 4}}$ Jack has \$4.25 in nickels and dimes. If he has 54 coins altogether, how many of each does he have?

	Nickels	Dimes	Total
Number of Each			
Value of Each			