Today's Learning Goal(s): 14a, W, Ka

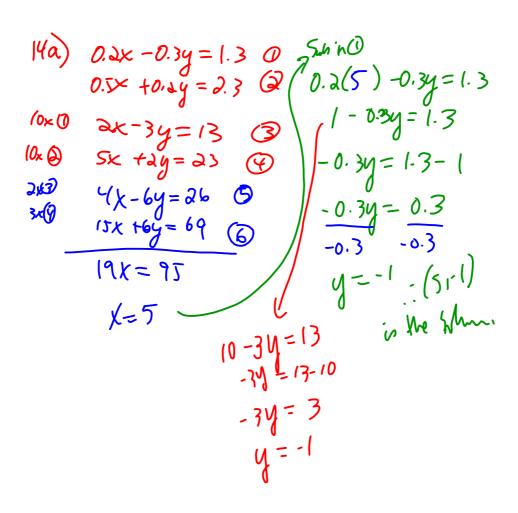
By the end of the class, I will be able to:

a) Solve money problems using substitution or elimination.

You should have already previewed the 3 videos for today's lesson.

You do NOT have to copy the video solutions to your handout. You need to understand how to write proper "let" statements, and be able to create 2 equations based on the given information.

> http://www.mathwiz.ca/login.php wayne_lowe@wrdsb.on.ca



Money Problems



Example 1 Going to the Movies

Over the course of the movie you eat 5 food items. Including the price of the ticket you end up spending \$21.25

Your friend eats 8 food items and with the ticket price spends \$26.50.

Determine the ticket price and the cost per food item.

Let t be the ticket price.

Let **c** be the cost per food item.

YOU

1 t + 5c = 21.25

FRIEND

2 t + 8c = 26.50

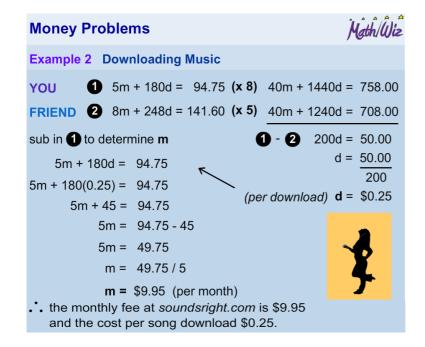


(ticket price)

(cost of food item)

•• the ticket price to see King Kong is \$12.50 and the cost of a food item is \$1.75.





Money Problems - Investments

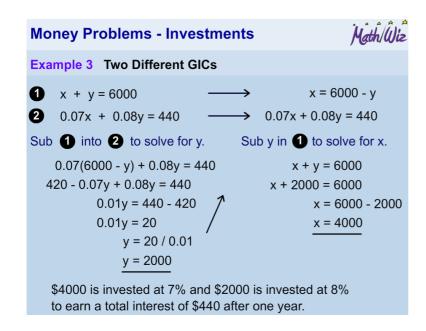


Example 3 Two Different GICs

You have \$6000 to invest and choose two different G.I.C's to earn interest for your money. One part of the money is invested at 7% /a and the other part at 8% /a . The total interest earned from the two parts at the end of one year is \$440.

Determine the amounts that you invest at each interest rate?

		G.I.C A		G.I.C B	1	Amounts
0	investment	x	+	у	=	6000
2	interest	0.07x	+	0.08y	=	440



TODAY'S Practice: p. 40 #9, pp. 46-47 #1, 3, 4, 16

OPTIONAL extra p. 46 #11

Google Classroom: Preview 1 video before tomorrow's class Bring headphones to tomorrow's class.