Math 107
Spring 2017
Lecture 11

Tom has \$2.50 in nickels and dimes. The # of dimes is 5 fewer than the # of							
nickels. How many of each? Total Value							
Coins	worth	Number	Molue	15 \$2.50			
Dimes	ιο ¢	x-5	10 (x-5))imes + Nickels = 250¢			
Nickels	5¢	X	5 X	_ 230 +			
$\frac{10(x-5)+5x}{10x-50+5x}=250$ 20 Nickels $\frac{10x-5}{15x}=300$							
			15 1	simes			

Jack Sold 30 drinks.							
He collected \$88.		Worth					
Small drink \$2.50	Small	\$2.50	χ	2.50x			
Large drink \$3.50				3,50(30-2)			
Itow many of each? Large Small 30-1=29 30-2=28 2.50x +3.50(30-x)=88 Multiply by 100 to remove decimal Point.							
30-10=20 10 $5x+7(30-x)=176$ $5x+350(30-x)=8800$ $25x+35(30-x)=880$ $25x+35(30-x)=880$							
5x + 210 -7x = 176	2 <mark>5</mark> x 4	.35(3)	0-x)= y 5 to	e regne			

$$-2x + 210 = 176$$

$$-2x = 176 - 210$$

$$-2x = -34$$

$$x = \frac{-34}{-2} x = 17$$

$$30 - 17 = 13$$
Arinks

Maria Paid \$4.20 to buy two different type of Stamps.

One @ 15¢ each, another @ 20¢ each.

The # of 20¢ Stamp was I sewer than twice the number of 15¢ Stamp.

How many of each? 15x + 20(2x-1) = 420Stamp | worth | Number | value | 15x + 40x - 20 = 42015¢ | 15 | 2(x) - 1 | 15x | 55x = 44020¢ | 20 | 2x - 1 | 20(2x - 1) | 20 | 20 | 2x - 1 | 20(2x - 1) | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

John drove half his in construction Zone and two and a half his on the FWY.							
Tatal distance 151,5 Melles.							
His Sp	sed on	the Freeway was 4 times $x = 15$					
his speed in Construction Zone. $x = 15$ find his speed in both parts. 60 mph Fuyl							
tind h Type	ا	1. + 1= d	ا/د،				
Const.	x	$.5 = .5\chi$	5				
Fwy		$\begin{vmatrix} 2.5 \\ = 2.5 \\ (4\chi) \end{vmatrix} = \frac{157.5}{10.5}$	/				
		10.5					

Jose & Maria hit the road.

Jose drove 3 hrs, Maria drove 4 hrs.

Total distance 445 miles.

Maria's speed was 15 mph faser than Jose's.

Sind Speed for both. Driver + + + d

Maria x+15 4 4(x+15)

3x +4(x+15)=445 Jose x 3 3x

3x +4x +60=445 PX=385 X=55

TX = 385 Jose: 55 mph

Maria: 70 mph

Maria & Jose are traveling in the Same direction. They left the rest area at the Same time. How long does it before Jose is 15 miles ahead of Maria? Jose @ 60 mph, 60.t and Maria @ 40 mph.

40.t | 15 miles |

60t | 40t = 15 | 20t = 15 |

Distance by Jose Maria | t = 15 |

North Maria | t = 15

Next week: Simple Interest

Dour last class

Any work You have

not turned in, Do it.

Instruction for Simple interest will be

Siven next week.