APPENDIX C

The Supplementary Lecture Notes for Lesson Number 11

3 - FACTOR PROBLEMS

THREE (3) TYPES:

$X = \dfrac{FG}{H}$ SOLVE $\dfrac{F}{H}$ AND MULTIPLY THE RESULT BY G

$X = FGH$ SOLVE $(F)(G)$ AND MULTIPLY THE RESULT BY H

$X = \dfrac{F}{GH}$ SOLVE $\dfrac{F}{G}$ AND DIVIDE THE RESULT BY H

NOTICE THAT IN EACH CASE WE ARE IN EFFECT SOLVING A PAIR OF

2-FACTOR PROBLEMS WITHIN EACH 3-FACTOR PROBLEM.

EXAMPLES OF 3-FACTOR PROBLEM SOLUTION

USING C & D SCALES

TYPE $\dfrac{FG}{H}$
$$\dfrac{\overset{+1}{(60.60)}\overset{+3}{(1004.)}}{\underset{-1}{0.3180}} = \dfrac{+1+3+1 \ = \ +5}{1913} = 191,300.$$

TYPE FGH
$$\overset{0}{(7.340)}\,\overset{+2}{(111.0)}\,\overset{-1+1}{(0.4440)} = \dfrac{0+2-1+1 \ = \ +2}{3618} = 361.8$$

TYPE $\dfrac{F}{GH}$
$$\dfrac{\overset{-3}{0.001,565}}{\underset{-1+1 \quad +3}{(0.6110)(1716.)}} = \dfrac{-3+1-1-3 \ = \ -6}{1493} = 0.000,001,493$$

EXAMPLE 1: $(0.0603)(7.090)(384.3)$

EXAMPLE 2: $\dfrac{933.0}{(6.660)(2.210)}$

EXAMPLE 3: $\dfrac{(0,046,10)(46.75)}{5.810}$