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BUSINESS MATHEMATICS ASSIGNMENT 1 MISTEL SHOPPING MALL

Sales Staff rate = 4.5% or 0.045Common Quota = GHc 15,000 - GHC 50,000Extra rate = 3% (for sales above GHc 50,000) Supervisor's rate = 2.5%Override rate = 3.5%Senior Supervisor's rate = 3% on commission 5% on override Store Sales = GHc 168,784.50Store returns = GHc 16,780.00Store Quota = GHc 30,000.00

1.PERSONAL COMMISSION OF EACH STAFF

ISSIFU OPOKU;

Commission = Commission Amount x Rate of commission But, Commission Amount = Sales – Quota = GHC 42,565 – GHc 15,000 = GHc 27,565.00 Commission = GHc 27,565 x 0.045 = GHc 1240.432 Therefore, Issifu Opoku's personal commission is GHc 1,240.43

YAW MENSAH

Personal Sales = GHc 23,700 *Commission* = Commission Amount x Rate of commission But, *C.A* = Sales – Quota

= GHc 23,700 – GHc 15,000

= GHc 8,700.00

 $Commission = GHc 8,700 \times 0.045$

= GHc 391.50

Therefore, Yaw Mensah's personal commission is GHc 391.50

FINANCIAL OTABIL

KWARTZIKOR ADZO

Personal Sales = GHc 48,200.00 Returns = GHc 1230.15 *Commission* = C. A x Rate of commission But, *C. A* = Sales - Quota - Returns = 48,200 - 15,000 - 1230.15 = GHc 31,969.85 x 0.045

Commission = GHc 1,438.64 *Therefore*, Kwartzikor Adzo's personal commission is GHc 1,438.64

HARUNA ADIZA

Personal Sales = GHc 45,155.00 Returns = GHc 1,172.10 *Commission* = C.A x Rate of Commission But, C.A = Sales – Quota – Returns

=45,155-15,000-1172.10

= GHc 28,982.90 x 0.045

= GHc 1,304.23

Therefore, Haruna Adiza's personal commission is GHc 1,304.23

(II). GROSS EARNINGS OF THE SUPERVISORS

AGYEMAN SELINA (SUPERVISOR)

Personal Sales = GHc 82,000 Returns = GHc 28,775.40 Basic Salary = GHc 485.75 *GROSS EARNINGS = Basic Salary + Commission + Override Commission* = C.A x Rate of Commission But, C.A = Sales - Quota - Returns = 82,000 - 15,000 - 28,775.40 = GHc 38,224.60 *Commission* = GHc 38,224.60 x 0.025

= GHc 955.62

OVERRIDE

Store override = Override Commission Amount x Override Rate

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O.C.A = Store Sales - Store Quota - Store Returns = GHc 168,784.50 - GHc 30,000 - GHc 16,780 = GHc 122,004.50 x 0.035 = GHc 4,270.16 GROSS EARNINGS = GHc 485.75 + GHc 955.62 + GHc 4270.16 = GHc 5,711.53 Therefore, Agyeman Selina's gross earning is GHc 5,711.53

MOHAMMED SEIDU (SENIOR SUPERVISOR)

Personal Sales = GHc 56,700 Returns = GHc 12,00.20 Basic Salary = GHc 550.25 *GROSS EARNINGS* =Basic salary + Commission + Override *Commission* = C.A x Rate of Commission But, *C.A* = Sales - Quota - Returns = 56,700 - 15,000 - 12,000.20

= 36,700 = 13,000 = 12,000 =

OVERRIDE

Store Override = Override Commission Amount x Override Rate O.C.A = Store Sales – Store Quota – Store Returns = GHc 168,784.50 – GHc 30,000 – GHc 16,780 = GHc 122,004.50 x 0.05 = GHc 6,100.23 GROSS EARNINGS = GHc 550.25 + GHc 890.99 + GHc 6,100.23 = GHc 7,541.47 Therefore, Mohammed Seidu's gross earning is GHc 7541.47

NOTES:

• C. A means Commission Amount

• O.C.A means Override Commission Amount

In (II)<mark>, t</mark>he question asked us to find the gross earning and not the total earning, so Agyeman Selina's draws will not be used in this case.

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