**Question #1**

Answer the questions about the following excel worksheet.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E |
| 1 | **Air Flight** | | | | |
| 2 | **Company** | **MEA** |  |  |  |
| 3 | **Tax** | **10%** |  |  |  |
| 4 | **Date** | **Class** | **Price** | **Passengers** | **Amount** |
| 5 | 13/05/2008 | Business | 750 | 6 | ? |
| 6 | 13/05/2008 | Economy | 450 | 100 | ? |
| 7 | 20/05/2008 | Business | 650 | 10 | ? |
| 8 | 20/05/2008 | Economy | 300 | 150 | ? |
| 9 | 15/05/2008 | Business | 750 | 10 | ? |
| 10 | 15/05/2008 | Economy | 450 | 120 | ? |
| 11 | **Total Passengers** | ? |  | **Total earned** | ? |
| 12 | **Total in business class** | ? |  |  |  |
| 13 | **Total in economy class** | ? |  |  |  |

The Excel sheet above is used by Middle East Airlines.

1. Write a formula in cell E5 that calculates the earnings from the passengers knowing that the amount is the number of passenger multiplied by the price plus the tax that is fixed at 10%.

E5:\_\_\_\_\_\_\_\_\_=C5\*D5+C5\*D5\*($B$3)\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write a formula in cell B13 to calculate the number passengers in economy class.

B13:\_\_ =SUMIF(B5:B10,"Economy", D5:D10)\_\_\_

1. Write a formula in cell E11 to calculate the total earnings from all the flights.

E11: \_\_\_=SUM(E5:E10)\_\_\_

1. Write a formula in cell B12 to calculate the number of passengers in business class.

B12: \_\_\_\_\_=SUMIF(B5:B10, "Business", D5:D10)\_\_\_\_

1. Write a formula in cell B11 to calculate the total number of passengers.

B11: \_\_\_=SUM(D5:D10)\_\_\_\_

**Question #2**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **D** | **E** | **F** | **G** |
| **1** | **Salaries** | | | | | | |
| **2** | **Employee** | ***Rate*** | ***Hours Worked*** | ***Gross Pay*** | ***Marital Status (S=Single, M=Married)*** | ***Deductions*** | ***Net Pay*** |
| **3** | Samir | 12 | 222 | ? | S | ? | ? |
| **4** | Rami | 32 | 156 | ? | S | ? | ? |
| **5** | Karim | 22 | 278 | ? | M | ? | ? |
| **6** | Rima | 13 | 130 | ? | M | ? | ? |
| **7** | Hayfa | 15 | 100 | ? | S | ? | ? |
| **8** | Hanan | 21 | 144 | ? | M | ? | ? |
| **9** | **Total Expenses** | | | ? |  |  |  |
| **10** | **Revenues** | | | | | | |
| **11** | **Sales Tax Rate** | | | | 10% |  |  |
| **12** | **Item** | ***Unit Price*** | ***Quantity*** | ***Sub-total*** | ***Total After Taxes*** |  |  |
| **13** | IDE442 | 37 | 3 | ? | ? |  |  |
| **14** | HDD14SG | 100 | 15 | ? | ? |  |  |
| **15** | EDO128 | 35 | 55 | ? | ? |  |  |
| **16** | PIV2.2 | 300 | 24 | ? | ? |  |  |
| **17** | MB2K | 250 | 23 | ? | ? |  |  |
| **18** | ATX2.20 | 20 | 30 | ? | ? |  |  |
| **19** | FDD1.44 | 5 | 34 | ? | ? |  |  |
| **20** |  |  | **Total Revenues** | | ? |  |  |
| **21** |  |  |  |  |  |  |  |
| **22** | **Company Status** | | ? |  |  |  |  |
| **23** | **Highest Net Salary** | | ? |  |  |  |  |
| **24** | **Lowest Net Salary** | | ? |  |  |  |  |

The Excel sheet above is used for the calculation of the salaries and expenses of a computer store.

1. Write the Excel Formula in cell D3 to calculate the gross salary of employee Samir knowing that the gross salary of an employee is the rate multiplied by the number of hours worked.

D3: \_\_\_\_=B3\*C3\_\_\_\_\_\_

1. Write the Excel function in cell F3 to calculate the deduction amount for employee Samir knowing that the deduction amount is determined by the Marital Status of the employee as follows:

*If the employee is Single  
 Then, deduct 30% of the gross pay  
 Else, deduct 15% of the gross pay.*

F3: \_\_\_=IF(E3="S",30%\*D3,15%\*D3)\_\_\_\_\_

1. Write the Excel formula in cell G3 to calculate the net pay for employee Samir. The net pay is computed by subtracting the deduction amount from the gross pay.

G3: \_\_\_\_\_\_=D3-F3\_\_\_\_\_\_\_

1. Write the Excel Function in cell D9 to calculate the total expenses which is the sum of the Gross Pay for all employees.

D9: \_\_=SUM(D3:D8)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the Excel Function in cell C23 to calculate the highest salary.

C23: \_\_\_ =MAX(G3:G8)\_\_\_\_\_\_\_

1. Write the Excel Function in cell C24 to calculate the lowest salary.

C24: \_\_\_=MIN(G3:G8)\_\_\_\_

1. Write the Excel Formula in cell D13 to calculate the subtotal of item IDE442. The sub-total of an item is the quantity multiplied by the unit price.

D13: \_\_\_=B13\*C13\_\_\_\_

1. Write the Excel Formula in cell E13 to calculate the total after taxes of item IDE442. The total after taxes is the sub-total plus the tax.

E13: \_\_\_\_=D13+$E$11\*D13\_\_\_\_\_

1. Write the Excel Function in cell E20 to calculate the total revenues which are the sum of all total after taxes.

E20\_\_\_\_=SUM(E13:E19)\_\_\_\_\_

1. Write the Excel Function in cell C22 to calculate the status of the company. The company status is either Gain (Total revenues > Total expenses) or Lose.

*If the Total revenues are greater than the Total expenses*

*Then, the Company status is Gain*

*Else, the Company status is Lose*

C22:\_\_\_\_ =IF(E20>D9,"Gain","Lose")\_\_\_\_

**Question #3**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F |
| 1 | Date | ? |  |  |  |  |
| 2 | total\_salesp# | ? | 40% | 60% |  |  |
| 3 | Name | Type | Quarter1 | Quarter2 | Avg sales | Status |
| 4 | George | Fulltime | 900 | 692 | ? | ? |
| 5 | Ahmad | Parttime | 860 | 289 | ? | ? |
| 6 | Dalia | hourly | 150 | 158 | ? | ? |
| 7 | Robert | Parttime | 780 | 588 | ? | ? |
| 8 | Julia | Fulltime | 500 | 765 | ? | ? |
| 9 | Nour | Hourly | 358 | 860 | ? | ? |
| 10 | Rima | Fulltime | 780 | 980 | ? | ? |
| 11 | Sami | Parttime | 445 | 260 | ? | ? |
| 12 | Joe | Parttime | 193 | 196 | ? | ? |
| 13 | Bassel | Hourly | 387 | 185 | ? | ? |
| 14 | Quarter average sale | | ? | ? |  |  |
| 15 | Maximum quarter sale | | ? | ? |  |  |
| 16 | Minimum quarter sale | | ? | ? |  |  |
| 17 | Fulltime count | | ? |  |  |  |
| 18 | Fulltime Sum | | ? |  |  |  |
| 19 | Fulltime Average | | ? |  |  |  |

Answer the questions about the following sheet which is used to calculate salesperson’s averages, status, and statistics about the computed averages.

1. Write the Excel function in cell B1 to calculate the current day date: **(1 pt)**

B1: \_\_\_\_\_\_=today()\_\_\_\_\_\_

1. Write the Excel function in cell B2 to calculate the total number of salespersons: **(2 pt)**

B2: \_\_\_=COUNTA(B4:B13)\_\_\_\_\_\_\_

1. Write the Excel function in cell C14 to calculate the average sales per each quarter **(3 pts)**.

C14: \_\_\_=AVERAGE(C4:C13)\_\_\_\_\_\_\_\_\_

1. Write the Excel function in cell C15 to calculate the maximum sales in each quarter **(2 pt)**

C15: \_\_\_\_\_=MAX(C4:C13)\_\_\_\_\_\_\_

1. Write the Excel function in cell C16 to calculate the minimum sales in each quarter **(2 pt)**

C16: \_\_\_\_=MIN(C4:C13)\_\_\_\_\_\_\_\_\_\_\_

1. Write the Excel function in cell C17 to calculate the number of fulltime salespersons. **(3 pts)**

C17: \_\_\_=COUNTIF(B4:B13,"Fulltime")\_\_\_\_\_\_

1. Write the Excel function in cell C18 to calculate the sum of the average sales of fulltime salespersons. **(3 pts)**

C18: \_\_\_=SUMIF(B4:B13,"Fulltime",E4:E13)\_\_\_\_\_\_\_\_\_

1. Write the Excel function in cell C19 to calculate the average of the avg. sales of fulltime salespersons. **(3 pts)**

C19: \_\_\_\_=AVERAGEIF(B4:B13,"Fulltime",E4:E13)\_\_\_\_\_\_

1. Write the Excel function in cell E4 to calculate the average sales of each salesperson (40% for quarter1, 60% for quarter2). **(3 pts)**

E4: \_\_\_\_=40%\*C4+60%\*D4\_\_\_\_\_\_\_

1. Write the Excel function in cell F4 to calculate the status of a salesperson. A salesperson has a status: 1 for average sales>1500, 2 for average sales>1000, 3 otherwise. **(3 pts)**

F4: \_\_\_\_\_\_=IF(E4>1500,"1",IF(E4>1000,"2","3"))\_\_\_\_\_\_\_\_\_