SOAL 2 :

Berikut ini adalah data mentah tentang gaji bulanan 50 pegawai honorer dalam ribuan rupiah.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 138 | 164 | 150 | 132 | 144 | 125 | 149 | 157 | **118** | 124 |
| 144 | 152 | 148 | 136 | 147 | 140 | 158 | 146 | 128 | 135 |
| 168 | 165 | 126 | 154 | 138 | 118 | **178** | 163 | 137 | 143 |
| 135 | 140 | 153 | 135 | 147 | 142 | 173 | 146 | 146 | 150 |
| 142 | 150 | 135 | 156 | 145 | 145 | 161 | 128 | 155 | 162 |

Dari data diatas, buatlah daftar distribusi frekuensi, frekuensi relatif dan kumulatif dari gaji tersebut.

JAWAB :

1. Jumlah kelas (k) = 1 + 3,3 log n

= 1 + 3,3 log 50

= 1 + 3,3 (1,698)

= 1 + 5,6066

= 6,6066 🡪 minimal 6 sesuai kebutuhan (7)

Interval kelas = (nilai terbesar – nilai terkecil)/jumlah kelas

= (178-118)/6,6066

= 9,0818 = 10

**TABEL DISTRIBUSI FREKUENSI, FREKUENSI RELATIF & KUMULATIF**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Kelas** | **Hasil Tugas** | **Jumlah Frekuensi (F)** | **Frekuensi Relatif** | **Keterangan** | **Batas Bawah Kelas** | **Frekuensi Kurang Dari** | **Frekuensi Lebih Dari** |
| 1 | 118 - 127 | 5 | 10% | (5/50) x 100% | 117.5 | 0 + 0 = 0 | 50 - 0 = 50 |
| 2 | 128 – 137 | 9 | 18% | (9/50) x 100% | 127.5 | 0 + 5 = 5 | 50 – 5 = 45 |
| 3 | 138 – 147 | 16 | 32% | (16/50) x 100% | 137.5 | 5 + 9 = 14 | 45 – 9 = 36 |
| 4 | 148 – 157 | 11 | 22% | (11/50) x 100% | 147.5 | 14 + 16 = 30 | 36 – 16 = 20 |
| 5 | 158 – 167 | 6 | 12% | (6/50) x 100% | 157.5 | 30 + 11 = 41 | 20 – 11 = 9 |
| 6 | 168 – 177 | 2 | 4% | (2/50) x 100% | 167.5 | 41 + 6 = 47 | 9 – 6 = 3 |
| 7 | 178 - 187 | 1 | 2% | (1/50) x 100% | 177.5 | 47 + 2 = 49 | 3 – 2 = 1 |
|  |  | 187.5 | 49 + 1 = 50 | 1 – 1 = 0 |
| Jumlah |  | **50** | **100%** |  |  |  |  |