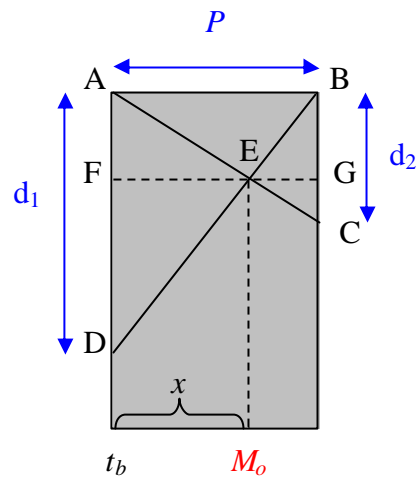
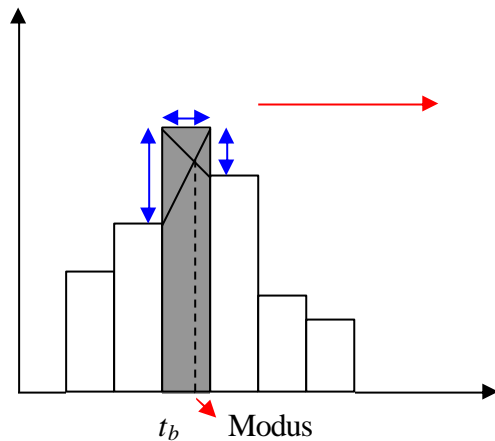


## Modus ( $M_o$ ) Data Berkelompok

Histogram



Dari gambar

$$\angle DAE = \angle BCE \text{ dan } \angle AED = \angle CEB$$

Sehingga  $\frac{FE}{AD} = \frac{GE}{BC}$

Misalkan  $FE = x$  maka  $GE = p - x$  sehingga

$$\begin{aligned} \frac{x}{d_1} &= \frac{p-x}{d_2} \\ d_2 x &= d_1(p-x) \\ d_2 x &= d_1 p - d_1 x \\ d_1 x + d_2 x &= d_1 p \\ x(d_1 + d_2) &= d_1 p \\ x &= \left( \frac{d_1}{d_1 + d_2} \right) p \end{aligned}$$

$$\text{Modus} = M_o = t_b + x$$

$$\text{Modus} = M_o = t_b + \left( \frac{d_1}{d_1 + d_2} \right) p$$

Keterangan:

1.  $M_o$  = Modus
2.  $t_b$  = Tepi Bawah Kelas  $M_o$
3.  $d_1$  = Selisih Frekuensi Kelas  $M_o$  dengan Kelas Sebelumnya
4.  $d_2$  = Selisih Frekuensi Kelas  $M_o$  dengan Kelas Sesudahnya
5.  $p$  = Panjang Kelas