

LEMBAR KERJA PESERTA DIDIK [LKPD]

Penyebaran Data

Nama :

Kelas :

No. Absen :

Kegiatan 1

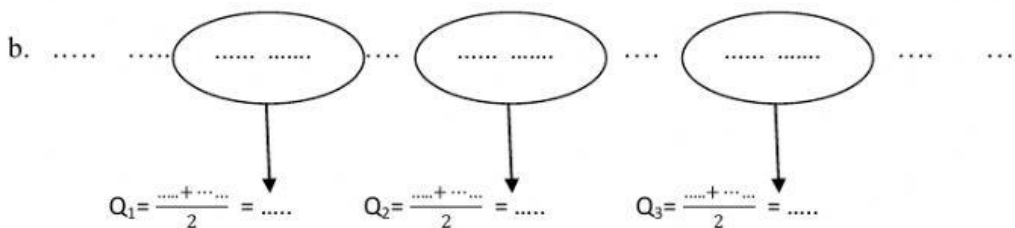
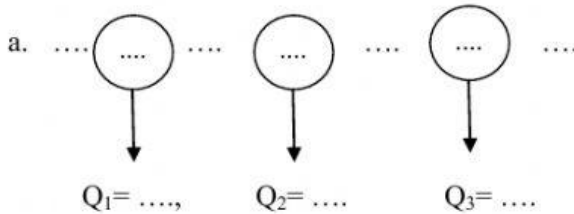
Berikut ini diketahuidata nilai ulangan matematika beberapa siswa kelas XII DPIB :

a) 4, 5, 8, 9, 7, 6, 5

b) 2, 3, 8, 4, 5, 8, 9, 7, 6, 6, 1, 7

Tentukan Q_1 , Q_2 , dan Q_3 untuk data tersebut.

Cara 1 : Urutkan data dari yang terkecil



Cara 2: Dengan rumus

a. $Q_1 = x_{\frac{1}{4}(n+1)} = x_{\frac{8}{4}} = x_2 \rightarrow Q_1 = \dots$

$Q_2 = x_{\frac{1}{2}(n+1)} = x_{\frac{1}{2}(\dots+1)} = x_{\frac{1}{2}(\dots)} = x_{\dots} \rightarrow Q_2 = \dots$

$Q_3 = x_{\frac{3}{4}(n+1)} = x_{\frac{3}{4}(\dots+1)} = x_{\frac{3}{4}(\dots)} = x_{\dots} \rightarrow Q_3 = \dots$

Jadi $Q_1 = \dots$, $Q_2 = \dots$, dan $Q_3 = \dots$

$$b. Q_1 = \frac{x_1}{4}(n+2) = \frac{x_{14}}{4} = x_{3,5} \rightarrow Q_1 = x_3 + 0,5(x_4 - x_3) = \dots + 0,5(\dots - \dots) = \dots + \dots = \dots$$

$$Q_2 = \frac{1}{2}(x_{\frac{n}{2}} + x_{(\frac{n}{2}+1)}) = \frac{1}{2}(x_{\frac{14}{2}} + x_{(\frac{14}{2}+1)}) = \frac{1}{2}(x_{\dots} + x_{\dots}) = \frac{1}{2}(\dots + \dots) = \frac{1}{2}(\dots) = \dots$$

$$Q_3 = \frac{x_1}{4}(3n+2) = \frac{x_1}{4}(3(\dots)+2) = \frac{x_1}{4}(\dots+2) = \frac{x_1}{4}(\dots) = x_{\frac{\dots}{4}} = x_{9,5} \rightarrow Q_3 = x_9 + 0,5(\dots - \dots)$$

$$Q_3 = x_9 + 0,5(\dots) = x_9 + 0,5 = \dots + 0,5 = \dots$$

Jadi $Q_1 = \dots$, $Q_2 = \dots$, dan $Q_3 = \dots$

Kegiatan 2

Diketahui data nilai ulangan bahasa inggris beberapa siswa kelas XII DPIB:

6, 4, 6, 4, 7, 5, 6, 5, 8, 7, 7, 7, 8, 6

Tentukan D_3 dan D_5 dari data tersebut.

Jawab: banyak data = $n = 14$

Data diurutkan :

$$D_3 = \frac{x_{\frac{3}{10}(14+1)}}{10} = \frac{x_{4,5}}{10} = x_{4,5}$$

$$= x_4 + 0,5(x_5 - x_4) = \dots + 0,5(\dots - \dots) = \dots + \dots = \dots$$

$$D_5 = \frac{x_{\frac{5}{10}(14+1)}}{10} = \frac{x_{\dots}}{10} = x_{\dots}$$

$$= \dots + \dots(\dots - \dots) = \dots + \dots(\dots - \dots) = \dots + \dots = \dots$$

Kegiatan 3

Diketahui data nilai ulangan bahasa Inggris beberapa siswa kelas XII DPIB:

6, 4, 6, 4, 7, 5, 6, 5, 8, 7, 7, 7, 8, 6

Tentukan P_{30} , dan P_{75} dari data tersebut.

Jawab: banyak data = $n = \dots$

$$\begin{aligned} P_{30} &= x_{\frac{30}{100}(n+1)} = x_{\frac{30}{100}n} = x_{\dots} \\ &= \dots + \dots(\dots - \dots) = \dots + \dots(\dots - \dots) = \dots + \dots = \dots \end{aligned}$$

$$\begin{aligned} P_{75} &= x_{\frac{75}{100}(n+1)} = x_{\frac{75}{100}n} = x_{\dots} \\ &= \dots + \dots(\dots - \dots) = \dots + \dots(\dots - \dots) = \dots + \dots = \dots \end{aligned}$$