

Sukatan Kecenderungan Memusat

Standard Pembelajaran

12.1.1 Menentukan mod, min dan median bagi suatu set data tak terkumpul

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Tentukan median dan min bagi set data yang berikut

1) 10, 8, 11, 13, 9, 15, 8

8, 8, 9, 10, 11, 13, 15

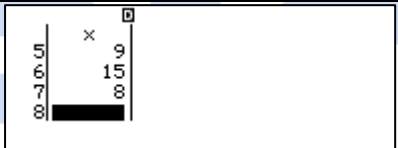
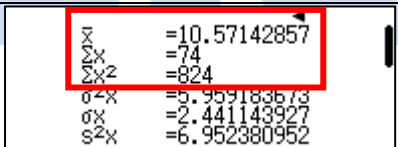
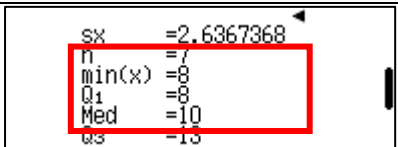
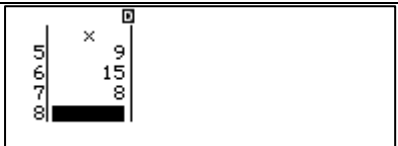
Median = 10

$$\text{Min} = \frac{10+8+11+13+9+15+8}{7}$$

$$= \frac{74}{7}$$

$$= 10.57$$

Semak guna kalkulator saintifik

Arahan	Paparan Skrin Kalkulator
MENU 6 [Statistic]	
1 1 0 = 8 = 1 1 = 1 3 = 9 = 1 5 = 8 = Masukkan data	
OPTN 3 Untuk dapatkan maklumat	
 Untuk mendapatkan median	
AC Untuk kembali kepada data yang dimasukkan	

2) 13, 16, 9, 12, 14, 5, 11, 16

5, 9, 11, (12, 13), 14, 16, 16

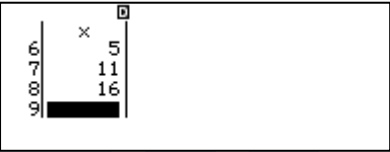
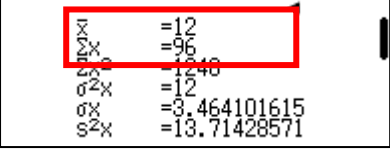
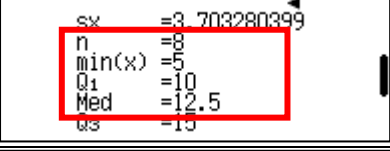
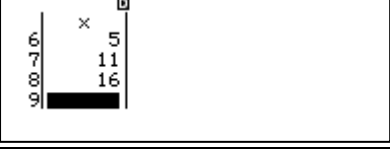
$$\text{Median} = \frac{12+13}{2}$$

$$= 12.5$$

$$\text{Min} = \frac{13+16+9+12+14+5+11+16}{8}$$

$$= \frac{96}{8}$$

$$= 12$$

Arahan	Paparan Skrin Kalkulator
MENU 6 [Statistic]	
1 1 3 = 1 6 = 9 = 1 2 = 1 4 = 5 = 1 1 = 1 6 = Masukkan data	
OPTN 3 Untuk dapatkan maklumat	
▼ Untuk mendapatkan median	
AC Untuk kembali kepada data yang dimasukkan	

- 3) Tentukan median dan min data yang diberi dalam jadual kekerapan di bawah.

Skor	1	2	3	4	5
Kekerapan	13	8	10	6	3

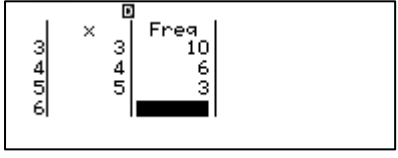
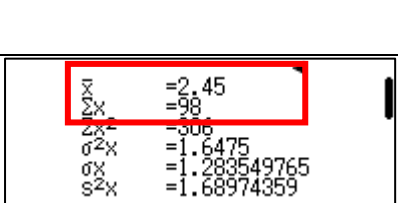
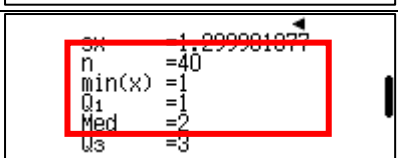
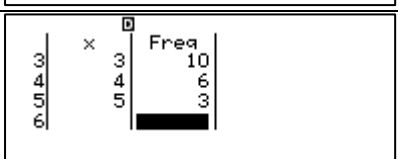
Median

$$\frac{13 + 8 + 10 + 6 + 3}{2} = \frac{40}{2} = 20$$

Data ke-20 terletak pada skor 2.

Jadi Median = Skor 2

$$\begin{aligned} \text{Min} &= \frac{\sum fx}{f} = \frac{1(13) + 2(8) + 3(10) + 4(6) + 5(3)}{13 + 8 + 10 + 6 + 3} \\ &= \frac{98}{40} \\ &= 2.45 \end{aligned}$$

Arahan	Paparan Skrin Kalkulator
MENU 6 [Statistic]	
1 SHIFT MENU ▼ 3 1 Untuk menambahkan lajur bagi kekerapan	
1 = 2 = 3 = 4 = 5 = ▶ ▼ 1 3 = 8 = 1 0 = 6 = 3 = Masukkan x dan kekerapan	
OPTN 3 Untuk dapatkan maklumat	
▼ Untuk mendapatkan median	
AC Untuk kembali kepada data yang dimasukkan	

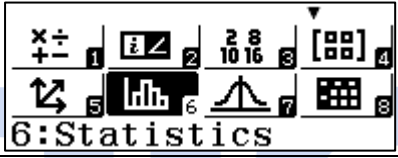
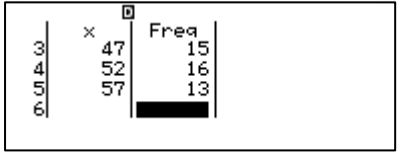
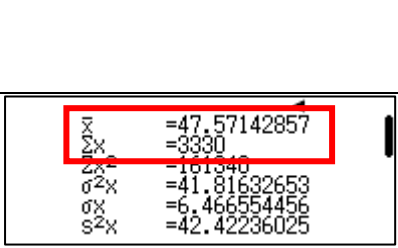
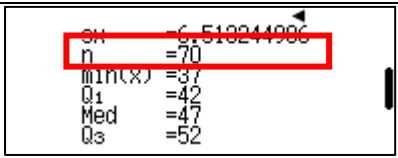
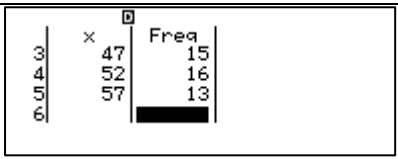
4) Tentukan min data yang diberi dalam jadual kekerapan di bawah.

Markah	Kekerapan	Titik tengah	Kekerapan x Titik tengah
35-39	8	37	8 x 37 = 296
40-44	18	42	18 x 42 = 756
45-49	15	47	47 x 15 = 705
50-54	16	52	16 x 52 = 832
55-59	13	57	13 x 57 = 741
Jumlah	70		3330

$$\text{Min} = \frac{\sum fx}{f}$$

$$= \frac{3330}{70}$$

$$= 47.57$$

Arahan	Paparan Skrin Kalkulator
MENU 6 [Statistic]	
1 SHIFT MENU ▼ 3 1 Untuk menambahkan lajur bagi kekerapan	
3 7 = 4 2 = 4 7 = 5 2 = 5 7 = ▶ ▼ 8 = 1 8 = 1 5 = 1 6 = 1 3 = Masukkan titik tengah dan kekerapan	
OPTN 3 Untuk dapatkan maklumat	
▼ Untuk mendapatkan jumlah kekerapan	
AC Untuk kembali kepada data yang dimasukkan	

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