NAMA:..... KELAS :.....

LATIHAN BAB 7 : SUKATAN SERAKAN BAGI DATA TERKUMPUL

EXERCISE CHAPTER 7 : MEASURES OF DISPERSION FOR GROUPED DATA

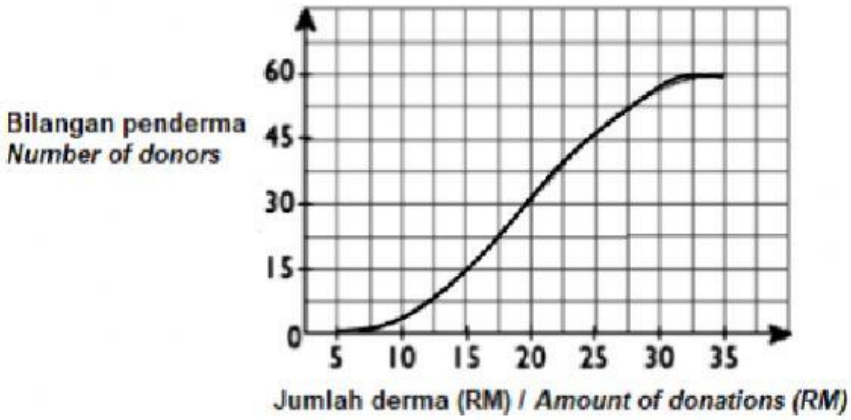
1 Jadual kekerapan longgokan di bawah menunjukkan saiz ketam yang dijual di sebuah pasar.
The cumulative frequency table below shows the sizes of crabs sold in a market.

Saiz *Size* (cm)	Bilangan ketam *Number of crabs*	Kekerapan longgokan *Cumulative frequency*
22 – 24	9	9
25 – 27	27	36
28 – 30	x	47
31 – 33	15	62
34 – 36	4	66

Cari nilai x.
Find the value of x.

A 11 **C 15**
B 13 **D 16**

2 Ogif di bawah mewakili jumlah derma daripada 60 orang penderma.
The ogive below represents the amounts of donation from 60 donors.



Nilai persentil ke-25, P_{25} ialah
The value of the 25th percentile, P_{25} is

A RM 10 **C RM 20**
B RM 15 **D RM 25**

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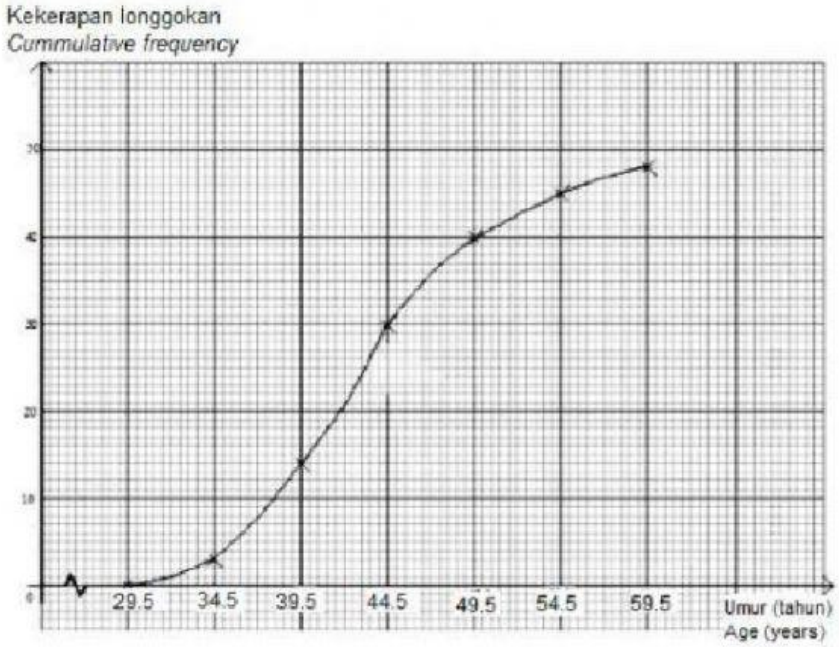
3 Jadual di bawah ialah jadual taburan kekerapan yang menunjukkan tinggi pelajar di sebuah kelas.
Table below is a frequency distribution table which shows the heights of students in a class

Tinggi (cm) *Height (cm)*	Kekerapan *Frequency*
$150 - 154$	3
$155 - 159$	6
$160 - 164$	8
$165 - 169$	x
$170 - 174$	2

Min tinggi pelajar itu ialah 161.6 cm. Cari nilai x.
The mean height of the students is 161.6 cm. Find the value of x.

A 9 **C** 7
B 8 **D** 6

4 Rajah di bawah ialah sebuah ogif yang menunjukkan taburan umur bagi 48 peserta dalam satu pertandingan memasak.
Diagram below is an ogive showing the age distribution of 48 competitors in a cooking competition.



Tentukan julat antara kuartil.
Determine the interquartile range.

A 8.15 **C** 25.00
B 10.05 **D** 34.00

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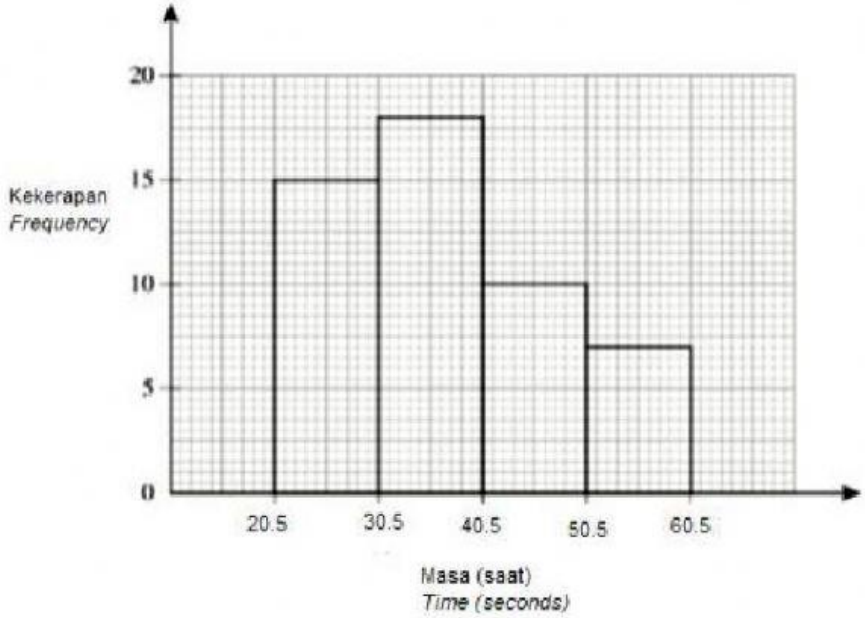
5 Rajah di bawah menunjukkan sebuah histogram yang menunjukkan taburan masa, dalam saat, diambil sekumpulan pelari untuk menamatkan larian 100 m.
Diagram below shows a histogram showing the distribution of the time, in second, taken by a group of runners to finish a 100 m race.



Hitung peratusan masa yang diambil oleh pelari yang lebih daripada 40 saat untuk menamatkan larian 100 m itu.
Calculate the percentage of the time taken by the runners which more than 40 seconds to finish a 100 m race.

A 17% **C** 32%
B 20% **D** 34%

6 For each of the following distributions, calculate the variance and standard deviation
Bagi setiap taburan di bawah, hitung varians dan sisihan piawai
a)

Number of tiles *Bil jubin*	20-39	40-59			
Frequency *kekerapan*	3	6	10	7	4

Varians
variance =

Sishan piawai =
Standard deviation

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b)

Distance *jarak*	6.1-8.0				
Frequency *kekerapan*	3	8	12	7	2

Varians *variance* =
Sishan piawai = *Standard deviation*

7 Banding dan tafsirkan set data terkumpul berikut dengan mencari sukatan serakannya. Seterusi buat kesimpulan berdasarkan serakan itu.

Data A

Jisim (kg)	Kekerapan
25 - 27	5
28 – 30	12
31 – 33	8
34 – 36	15
37 – 39	7
40 -42	3

Data B

Jisim (kg)	Kekerapan
31 – 35	20
36 – 40	23
41 – 45	27
46 -50	24
51 -55	26
56 - 60	21

Data A

Varians =
variance

Sisihan piawai =
Standard deviation

Data B

Varians=
variance

sisihan piawai=
Standard deviation

Kesimpulan :
conclusion

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