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

LATIHAN BAB 7 : SUKATAN SERAKAN BAGI DATA TERKUMPUL

EXERCISE CHAPTER 7 : MEASURES OF DISPERSION FOR GROUPED DATA

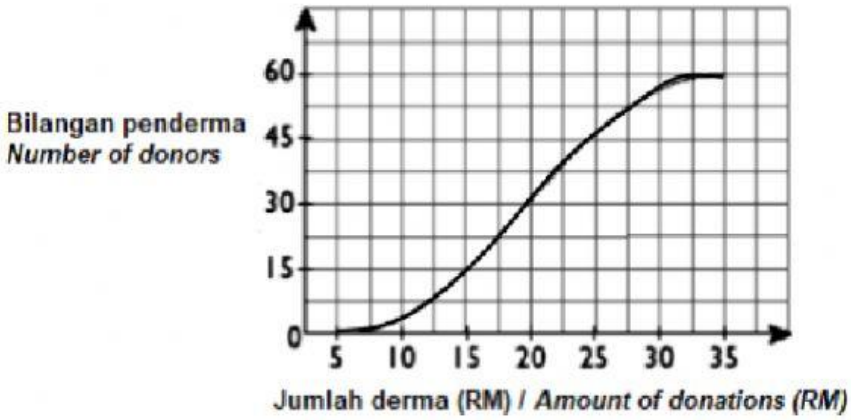
1 Jadual kekerapan longgokan di bawah menunjukkan saiz ketam yang dijual di sebuah pasar.
The cumulative frequency table below shows the sizes of crabs sold in a market.

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

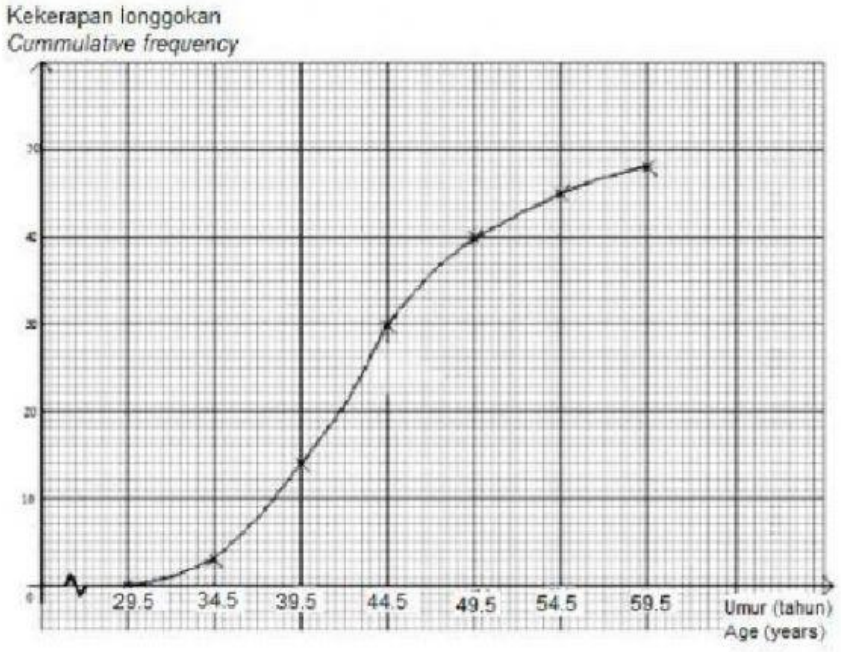
Tinggi (cm) *Height (cm)*	Kekerapan *Frequency*
150 – 154	3
155 – 159	6
160 – 164	8
165 – 169	x
170 – 174	2

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.

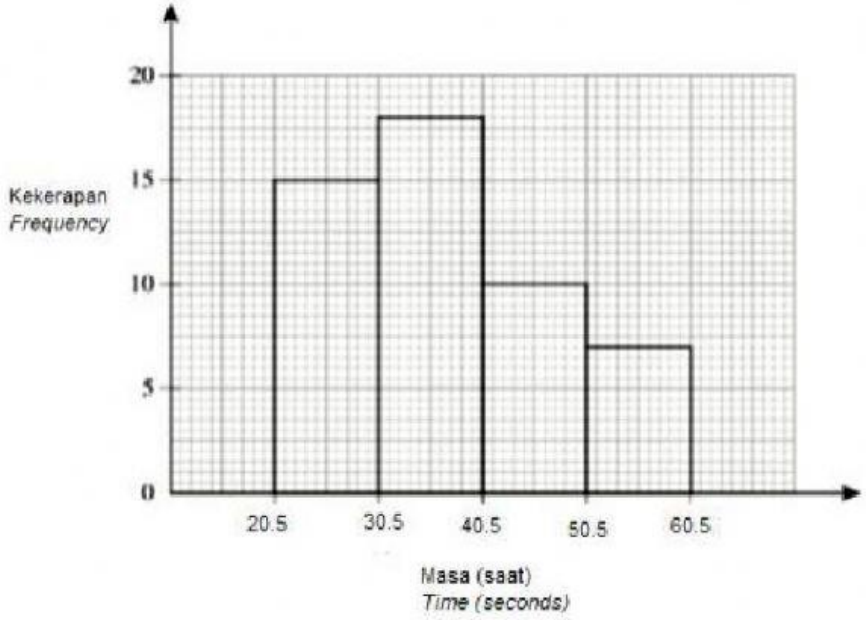


Tentukan julat antara kuartil.
Determine the interquartile range.

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%
B 20%
C 32%
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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