

ULANGKAJI TINGKATAN 4

BAB 8 : SUKATAN SERAKAN DATA TAK TERKUMPUL

(12 soalan: Isi dalam bulatan)

NAMA GURU:

SUBJEK: MATEMATIK

NAMA:

KELAS:

SOALAN 1

Plot batang-dan-daun berikut menunjukkan bilangan buku yang dipinjam dalam bulan Januari.

The following stem-and-leaf plot shows the number of books borrowed in January.

Batang Stem	Daun Leaf
1	1 2 5
2	1 2 4
3	1 3 5 7 8
4	0 1 3 6 8 9

Kekunci: 1 | 1 bermaksud 11 buah buku
Key: 1 | 1 means 11 books

Tentukan bilangan tertinggi buku yang dipinjam.

Determine the highest number of books borrowed.

A 38

C 83

B 49

D 94

SOALAN 2

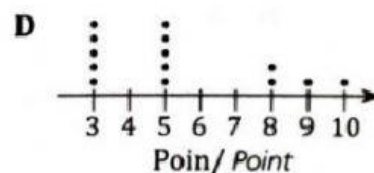
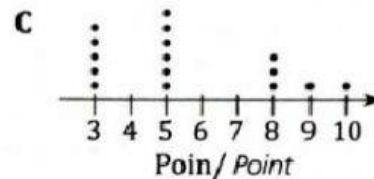
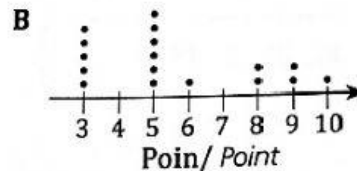
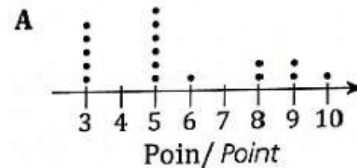
Rajah berikut menunjukkan poin yang diperoleh sekumpulan pelajar dalam suatu pertandingan.

The following diagram shows the points obtained by a group of students in a competition.

3	5	8	3	5	3	5	8
5	9	3	5	8	5	3	10

Pilih plot titik yang sesuai untuk mewakili data tersebut.

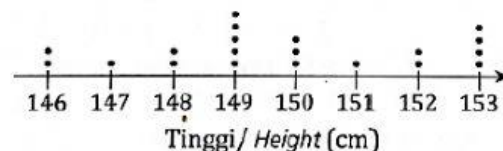
Choose the suitable dot plot to represent the data.



SOALAN 3

Plot titik berikut menunjukkan tinggi, dalam cm, bagi 20 orang murid.

The following dot plot shows the height, in cm, of 20 students.



Tentukan beza antara murid tertinggi dan murid terendah.

Determine the difference between the tallest student and the shortest student.

- A 7
B 7.2
C 8
D 8.2

SOALAN 4

Plot batang-dan-daun berikut menunjukkan jisim murid yang mengambil bahagian dalam pertandingan angkat berat.

The following stem-and-leaf plot shows the mass of the students who took part in the weightlifting competition.

Batang Stem	Daun Leaf
5	3 4 6 7 8
6	0 1 2 4 6 7 8
7	1 3 4 4 4 5 8 9
8	0 1

Kekunci: 5 | 3 bermaksud 53 kg

Key: 5 | 3 means 53 kg

Antara berikut, julat yang manakah mempunyai berat badan yang paling kerap muncul?

Which of the following ranges has weights which appear the most?

- A 53 kg hingga/ to 58 kg
B 60 kg hingga/ to 68 kg
C 71 kg hingga/ to 79 kg
D 80 kg hingga/ to 81 kg

SOALAN 5

Rajah berikut menunjukkan satu set data.

The following diagram shows a set of data.

12 9 25 7 26 24 15

Hitung julat antara kuartil bagi set data itu.

Calculate the interquartile range of the set of data.

- A 7
B 9
C 16
D 24

SOALAN 6

Plot batang-dan-daun berikut menunjukkan tinggi beberapa tumbuhan.

The following stem-and-leaf plot shows the height of a few plants.

Batang/ Stem	Daun/ Leaf
5	0 4 6 8
6	1 2 3
7	0 1 2 5

Kekunci: 5 | 0 bermaksud 50 cm

Key: 5 | 0 means 50 cm

Apakah julat bagi data di atas?

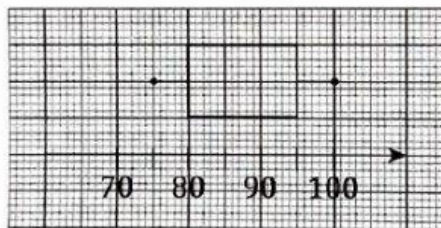
What is the range of the above data?

- A 61
B 25
C 15
D 13

SOALAN 7

Plot kotak berikut menunjukkan markah peperiksaan Matematik bagi suatu kelas tingkatan empat.

The following box plot shows the Mathematics examination marks for a form four class.



Markah/ Marks

Sepuluh daripada kelas itu mendapat markah kurang daripada x . Apakah nilai x ?

Half of the class scored less than x . What is the value of x ?

- A 75 C 85
B 80 D 95

SOALAN 8

Jadual berikut menunjukkan skor permainan yang diperoleh sekumpulan pemain.

The following table shows the game scores obtained by a group of players.

Skor Score	0	1	2	3	4
Bilangan pemain Number of Players	2	5	3	7	1

Nyatakan julat bagi skor permainan tersebut.
State the range of the game score.

- A 2 C 5
B 4 D 6

SOALAN 9

Jadual berikut menunjukkan bilangan buku yang dibaca oleh sekumpulan pelajar dalam seminggu.

The following diagram shows the number of books

Skor Score	2	3	4	5	6
Bilangan pemain Number of Players	4	5	2	3	4

Cari julat antara kuartil bagi data tersebut.

Find the interquartile range of the data.

- A 2 C 4
B 3 D 5

SOALAN 10

Tentukan varians bagi set data yang berikut.

Determine the variance for the following data.

21 , 33 , 16 , 15 , 7

- A 16.12 C 73.44
B 70.23 D 74.12

SOALAN 11

Tentukan sisihan piawai bagi set data yang berikut.

Determine the standard deviation for the following data.

11 , 21 , 5 , 15 , 7

- A 34.61 C 5.88
B 32.96 D 5.74

SOALAN 12

Rajah berikut menunjukkan bilangan anak bagi beberapa keluarga.

The following diagram shows the number of children of a few families.

3, 7, m , 5, n , 4

Diberi bahawa min ialah $4\frac{1}{2}$.

Hitung nilai $m + n$.

Given that the mean is $4\frac{1}{2}$.

Calculate the value of $m + n$.

A 6

C 8

B 7

D 9

