

QUESTION 1

SOALAN 1

- a) Table 1(a) shows the marks obtained by 40 students in an examination.

Jadual 1(a) menunjukkan markah yang diperolehi oleh 40 orang pelajar dalam suatu peperiksaan.

Table 1(a) / *Jadual 1(a)*

62	54	38	33	80	66	56	60	68	52
57	71	85	47	50	71	52	76	49	69
48	68	55	49	79	41	61	65	75	81
64	58	66	59	52	43	65	48	41	56

- i. Construct a frequency distribution table with a class width (class size) of 10 marks with the first class being 30-39.

Bina sebuah jadual taburan kekerapan dengan menggunakan lebar kelas (saiz kelas) 10 dengan permulaan kelas 30-39.

[3 marks]

[3 markah]

- ii. Calculate the mean.

Kirakan min.

[5 marks]

[5 markah]

- iii. Calculate the standard deviation for the data.

Kirakan sisihan piawai bagi data tersebut.

[7 marks]

[7 markah]

Lowest data:

Highest data:

Number of class interval : $\frac{\text{highest-lowest}}{\text{size of class}}$

: _____

:

≈ 6

CLASS INTERVALS	FREQUENCY f	X	fx	$ X - \bar{X} $	$(X - \bar{X})^2$	$\Sigma f(X - \bar{X})^2$
30 – 39						
40 – 49						
50 – 59						
60 – 69						
70 – 79						
80 - 89						
TOTAL			Σ			Σ

Mean $\bar{x} = \frac{\Sigma fx}{\Sigma f}$

= —

= _____

Variance, $\sigma^2 = \frac{\Sigma f(X - \bar{X})^2}{\Sigma f}$

= —

=

So Standard Deviation $\sigma = \sqrt{\text{Variance}}$

= $\sqrt{\quad}$

= _____