The two sets of observations are given below

set 1	mean=82.5	S.D.= 7.3
set 2	mean=48.75	S.D.= 8.35

which of two is more consistent?

- ○ both set are less consistant
- ○ both set are more consistent
- ○ set 2 is more consistant
- ◉ set 1 is more cosistant

Clear selection

Coefficient of variance is given by the formula...

$\frac{\sigma}{\bar{x}} \times 100$

Option 2

$\frac{\sigma}{\bar{x}}$

Option 1

$\frac{\bar{x}}{\sigma} \times 100$

Option 4

$\frac{\bar{x}}{\sigma}$

Option 3

Evaluate $\sin[\theta + \frac{\pi}{6}] - \sin[\theta - \frac{\pi}{6}]$=...

tanθ

$\cos\theta$

Option 3

Option 2

. cotθ

. sinθ

Evaluate $\frac{sin3A - sinA}{cos3A + cosA} = .$

- cosA
- sinA
- tanA
- cotA

Clear selection

If $\tan\left[\frac{A}{2}\right] = \frac{1}{\sqrt{3}}$ then value of cosec A becomes.

$\frac{2}{\sqrt{3}}$

Option 4

$-\sqrt{3}$

Option 1

$\sqrt{3}$

$\frac{-2}{\sqrt{3}}$

Standard deviation for raw data is given by the formula

$\sqrt{\frac{(d_i)^2}{d}}$

Option 1

$\sqrt{\frac{(d_i)^2}{N}}$

Option 2

$(d_i)^2$

Option 4

$\sqrt{\frac{\Sigma(d_i)^2}{N}}$

Option 3

Calculate the area of a rhombus whose diagonals are 30 and 16 cm.

- ○ 250 sq,cm
- ◉ 240 sq.cm
- ○ 200sq.cm
- ○ 150 sq.cm

Clear selection

Find mean deviation of the data. 1,2,3,4,5

- ○ 1.4
- ○ 1.5
- ○ 1.3
- ◉ 1.2

If the volume of a room is 792 cubic meter and the area of the floor is 132 square meter. Find the height of the room.

- ○ 4 meter
- ◉ 6 meter
- ○ 7 meter
- ○ 5 meter

Clear selection

Find x if $\sin^{-1}[\frac{2}{3}] = \tan^{-1} x$

$\frac{\sqrt{5}}{3}$

Option 4

$\sqrt{5}$

Option 3

$\frac{2}{\sqrt{5}}$

Option 2

$-\frac{2}{\sqrt{5}}$

Option 1

Evaluate $\tan^{-1}\left(\frac{1}{2}\right) + \tan^{-1}\left(\frac{1}{3}\right) = \ldots$

$\frac{\pi}{4}$

Option 3

$\frac{\pi}{2}$

Option 4

π

Option 1

$\frac{-\pi}{4}$

Option 2

The side of a cube is 60 cm. Find the total surface area of the cube.

- ○ 21500 sq.cm
- ◉ 21600 sq.cm
- ○ 22600 sq.cm
- ○ 20100 sq.cm

Clear selection

Coefficient of variation of distribution is 75% and standard deviation is 24,what is its mean.

- ○ 33
- ○ 30
- ○ 31
- ◉ 32

The height and slant height of a cone are 12cm and 20 cm respectively . Find its volume.

- ○ 3500.30 cubic cm
- ◉ 3218.36 cubic cm
- ○ 4000 cubic cm
- ○ 3000 cubic cm

Clear selection

Evaluate $\frac{\sin\theta}{1+\cos\theta} = ?$

$-\cot\left[\frac{\theta}{2}\right]$

Option 4

$\cot\left[\frac{\theta}{2}\right]$

Option 3

$-\tan\left[\frac{\theta}{2}\right]$

Option 1

$\tan\left[\frac{\theta}{2}\right]$

Option 2

Calculate the range and coefficient of range of the following given data.

class intervals	40 -59	60-79	80-99	100- 119	120-139
Friquency	50	300	500	200	60

- (●) range=100 and coefficient of range=0.559
- ( ) range=90 and coefficient of range =0.699
- ( ) range=80 and coefficient of range= 0.0599
- ( ) range = 70 and coefficient of range = 0.899

Clear selection

Find range and coefficient of range of the following data.
49.63,46,59,65,52,60,54.

- ( ) R = 18 and C.R. = 0.18
- ( ) R = 20 and C.R. = 0.18
- (●) R = 19 and C.R. =0.17

Find volume of a hemisphere having radius 2meter.

- (●) 16.76 cubic meter
- ( ) 17 cubic meter
- ( ) 16 meter cube
- ( ) 20 cubic meter

Clear selection

Find the capacity of a cylindrical water tank whose radius is 2.1 m and height is 5m.

- ( ) 78000 litre
- ( ) 60783 litre
- ( ) 58000 litre
- (●) 69300 litre

Clear selectio

If $2\sin 60^0.\cos 20^0 = \sin A + \sin B$ then value of A and B is...

$A=40^0$ and $B=-80^0$

Option 3

$A=40^0$ and $B=40^0$

Option 1

$A=40^0$ and $B=80^0$

$A=80^0$ and $B=40^0$

1]Evaluate $\frac{\tan 66+\tan 69}{1-[tan66.tan69]}$

- (●) -1
- ( ) 1
- ( ) 0
- ( ) 2

Clear selection

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Tangential form of COS 2θ is..

$$\frac{\tan^2\theta + 1}{1 - \tan^2\theta}$$

Option 4

$$\frac{1 - \tan^2\theta}{1 + \tan^2\theta}$$

Option 1

$$\frac{\tan^2\theta}{1 + \tan^2\theta}$$

Option 2

$$\frac{\tan^2\theta}{1 - \tan^2\theta}$$

Option 3

Clear selection

Principal value of $\cos\{\frac{\pi}{2} - \sin^{-1}[\frac{1}{2}]\}$

- (●) 1/3
- ( ) 3/2
- ( ) -1/2
- ( ) 1/2

Clear selection

Evaluate $\sqrt{2+2cos\theta}$

$2\cos[\frac{\theta}{2}]$

Option 1

$2\tan[\frac{\theta}{2}]$

Option 3

$2\sin[\frac{\theta}{2}]$

Option 2

$2\cot[\frac{\theta}{2}]$

Option 4

Clear selection

Find std. deviation of the data 1, 2, 3

- (●) 0.812
- ( ) 0.782
- ( ) 0.901
- ( ) 0.70

Clear selection

If tan A = 1/2 then the value of 'SinA' if angle A lies in the 3rd quadrant is

$\frac{-1}{\sqrt{5}}$

Option 2

$\sqrt{5}$

Option 3

$\frac{1}{\sqrt{5}}$

$-\sqrt{5}$

The area of a trapezoid is 24 sq.cm and the length of parallel sides are 9 cm. and 7cm. Find the height.

- (●) 3 cm
- ( ) 2cm
- ( ) 4cm
- ( ) 5cm

Clear selection

If tanA = 1/2 ,tanB= 1/3 then tan[A+B] = ...

- ( ) 0
- ( ) -1
- ( ) 3
- (●) 1

Clear selection

If cosA = 1/2 , then value of cos3A

- 0
- 2
- 1
- -1

Clear selection

Find x if $\tan^{-1}(1) + \tan^{-1}(x) = 0$

- 1
- 0
- 2
- -1

Clear selectio