

OGUN DIGICLASS

CLASS: SECONDARY SCHOOL

SUBJECT: MATHEMATICS

TOPIC: REVISION



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Question 1.

FIND THE EQUATION OF A STRAIGHT
LINE WHICH PASSES THROUGH THE
POINT (2,-3) AND IS PERPENDICULAR TO
THE LINE $2x + Y = 6$

(A). $2y - x + 8 = 0$

(B). $Y + 2x - 1 = 0$

(C). $Y - 2x + 1 = 0$

(D). $2y + x - 8 = 0$

QUESTION 2

The first term of an AP is -89 and the 28th term is 277. Find the sum of the first 28 terms.

- a. 5124
- b. 2632
- c. 366
- d. -2632

Question 3

Solve for x

$$(0.25)^{x-2} = 0.125$$

a. -3.5

b. -3

c. 0.5

d. 3.5

Question 4

Find correct to 2 decimal places the roots of the equation

$$3x^2 - 5x - 3 = 0$$

- (A). 0.47 and 2.14
- (B). -0.47 and 2.14
- (C). 0.47 and -2.14
- (D). -0.47 and -2.14

Question 5

A cone is 18cm deep with a base radius of $4\frac{1}{2}$ cm.

Calculate the volume of water that is exactly half the volume of the cone. (take $\pi = \frac{22}{7}$).

a. 95.47cm^3

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Question 6

A letter is drawn from the alphabets.

What is the probability that the word 'CORONAVIRUS' will be chosen.

a. $\frac{4}{13}$

b. $\frac{5}{13}$

c. $\frac{9}{26}$

d. $\frac{11}{26}$

Question 7

Marks	0	1	2	3	4	5	6	7	8	9	10
Frequency	1	3	2	2	1	6	2	3	2	1	2

Calculate the difference between the mean and median of the distribution.

- a. 0
- b. 1
- c. 2
- d. 3

Question 8

Two dice are thrown once.

What is the probability of getting a sum of numbers which is divisible by 4 or 5?

a. $\frac{1}{4}$

b. $\frac{2}{5}$

c. $\frac{4}{9}$

d. $\frac{7}{36}$

Question 9

- The Range of the numbers P , 6, 8, 11 and q arranged in ascending order is 16, if the mean is 9, find the value of $(2p + q)$
- (A). 20
- (B). 22
- (C). 38
- (A). 20

Question 10

Given that $\underline{\mathbf{U}} = \begin{pmatrix} 7 \\ -2 \end{pmatrix}$ and $\underline{\mathbf{V}} = \begin{pmatrix} -3 \\ 5 \end{pmatrix}$

Express $2\underline{\mathbf{U}} - 4\underline{\mathbf{V}}$ in the form $\begin{pmatrix} x \\ y \end{pmatrix}$

- (A). $\begin{pmatrix} -2 \\ 16 \end{pmatrix}$
- (B). $\begin{pmatrix} 16 \\ -13 \end{pmatrix}$
- (C). $\begin{pmatrix} 26 \\ -24 \end{pmatrix}$
- (D). $\begin{pmatrix} 13 \\ 12 \end{pmatrix}$

THE KEYS

- 1. A
- 2. B
- 3. D
- 4. B
- 5. C
- 6. C
- 7. A
- 8. C
- 9. B
- 10. C