



MATHS

BOOKS - OSWAL PUBLICATION

LINES (IN TWO DIMENSIONS)

Stand Alone Mcqs

1. The distance of the point P(3, -4) from

the origin is

A. 7 units

B. 5 units

C. 4 units

D. 3 units

Answer: B

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2. If AOBC is a rectangle whose three vertices are A(0, 3), O(0, 0) and B(5, 0), then find the length of its diagonal.

A. 5

B. 3

C. $\sqrt{34}$

D. 4

Answer: C



3. The perimeter of a tringle with vertices (0,4),

(0,0) and (3,0) is

A. 5

B. 12

C. 11

D.
$$7+\sqrt{5}$$

Answer: B

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4. The points (-4, 0),(4, 0) and (0, 3) are the

verticess of a

A. right triangle

- B. isosceles triangle
- C. equilateral triangle
- D. scalene triangle

Answer: B



5. The point which divides the line segment joining the points (7,-6) and (3,4) in ratio 1:2 internally lies in the

- A. I quadrant
- B. II quadrant
- C. III quadrant
- D. IV quadrant

Answer: D



6. The mid point of the line segment joining the points (-5, 7) and (-1, 3) is

A. (-3,7)

- B. (-3,5)
- C. (-1,5)
- D. (5,-3)

Answer: B



7. The fourth vertex D of a parallelogram ABCD whose three vertices are A(-2,3), B(6,7) and C(8,3) is

A. (0,1)

B. (0,-1)

C. (-1,0)

D. (1,0)

Answer: B

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8. A line intersects the Y- axis and X-axis at the points P and Q, respectively. If (2,-5) is the mid-

point of PQ, then the coordinates of P and Q

are, respectively.

A. (0,-5) and (2,0)

B. (0,10) and (-4,0)

C. (0,4) and (-10,0)

D. (0,-10) and (4,0)

Answer: D



9. If the points A(2, 3), B(4, k) and C(6, -3) are

collinear, find the value of k.

A. 1

B. 2

C. 4

D. 0

Answer: D

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10. Two vertices of ΔABC are A(-1, 4) and B(5, 2) and its centroid is G(0, -3). Then, the coordinates of C are

A. (-4,-15)

B. (15,-4)

C. (4,3)

D. (4,15)

Answer: A



11. If the vertices of a ΔABC are A(-1,0), B(5,-2)

and C(8,2). Then its centrid is :

A. (4,0)

B. (6,0)

C. (12,0)

D. (0,6)

Answer: A

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12. If the vertices of ΔABC are A(a,b),B(b,c) and C(c,a) and its centrid is the origin, then the value of (a + b + c) is :

A. 3

B. 1

C. 0

D. 2

Answer: C



1. The point A is on the y-axis at a distance of 4 units above from the origin. If the coordinates of the point B are (-3,0). Then length of AB is



2. Prove that the centroid of any triangle is the same as the centroid of the triangle formed by joining the middle points of its sides A. Both A and R are true and R is the

correct explanation for A.

B. Both A and R are true and R is not

correct explanation for A.

C. A is true but R is false.

D. A is false but R is true.

Answer: C

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3. Assertion (A) : The point (0,-3) lies on the y-axis.

Reason (R) : The x-coordinate of the point (0,-3) is zero.

A. Both A and R are true and R is the correct explanation for A.

B. Both A and R are true and R is not

correct explanation for A.

C. A is true but R is false.

D. A is false but R is true.

Answer: A



4. In what ratio does the point (4, 6) divide the line segment joining the points A(-6, 10) and B(3, 8)?

A. Both A and R are true and R is the

correct explanation for A.

B. Both A and R are true and R is not

correct explanation for A.

C. A is true but R is false.

D. A is false but R is true.

Answer: B

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Case Based Mcqs

 Read the following text and answer the following questions on the basis of the same :
Class X students of a secondary school in Krishnagar have been allotted a rectangular plot of a land for gardening activity. Saplings of Gulmohar are planted on the boundary at distance of 1 m from each other in the fig. The students are to sow seeds of flowering plants on the remaining area of the plot.



What are the coordinates of A?

A. (0,1)

B. (1,0)

C. (0,0)

D. (-1,-1)

Answer: C

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2. Read the following text and answer the following questions on the basis of the same : Class X students of a secondary school in Krishnagar have been allotted a rectangular

plot of a land for gardening activity. Saplings of Gulmohar are planted on the boundary at distance of 1 m from each other in the fig. The students are to sow seeds of flowering plants

on the remaining area of the plot.



What are the coordinates of P?

A. (4,6)

B. (6,4)

C. (4,5)

D. (5,4)

Answer: A



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on the remaining area of the plot.



What are the coordinates of R?

A. (6,5)

B. (5,6)

C. (6,0)

D. (7,4)

Answer: A

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What are the coordinated of D?

A. (16,0)

B. (0,0)

C. (0,16)

D. (16,1)

Answer: A

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5. Read the following text and answer the following questions on the basis of the same : Class X students of a secondary school in Krishnagar have been allotted a rectangular plot of a land for gardening activity. Saplings of Gulmohar are planted on the boundary at distance of 1 m from each other in the fig. The

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on the remaining area of the plot.



What are the coordinate of P if D is taken as the origin ?

A. (12,2)

B. (-12,6)

C. (12,3)

D. (6,10)

Answer: B



6. Read the following text and answer the following questions on the basis of the same : Using of mobile screen for long hours makes a child lazy, affect eyesight and give headache. Those who are addicted to playing PUBG can

easily du to lack of social interaction. To raise social awareness about it effects of playing PUBG, a school decided to start "Ban PUBG" campaign. Students are asked to prepare campaign board in the shape of rectangle.



Find the area of the board.

A. 15 sq. units

B. 20 sq. units

C. 24 sq. units

D. 40 sq. units

Answer: C

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A. Rs. 240

B. Rs. 244

C. Rs. 480

D. Rs. 400

Answer: A

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Find the intersection point of the diagonals.

A. (5,4)

B. (0,0)

C. (4,2)

D. (-4,6)

Answer: A

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9. Read the following text and answer the following questions on the basis of the same : Using of mobile screen for long hours makes a

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If we interchange both the axes, find the

coordinates of C.

A. (8,6)

B. (6,8)

C. (-6,-8)

D. (-6,8)

Answer: B


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Find the image of the point D on the x axis.

A. (-2,6)

B. (-2,-6)

C. (2,-6)

D. (6,2)

Answer: C





Find the distance between Dinesh and Sohan.

A. $2\sqrt{5}$ Units

B. $2\sqrt{3}$ Units

C. $2\sqrt{7}$ Units

D. $3\sqrt{2}$ Units

Answer: A





Find the distance between Dinesh and Mohan.

A. $5\sqrt{3}$ Units

- B. $5\sqrt{2}$ Units
- C. $3\sqrt{5}$ Units
- D. $2\sqrt{5}$ Units

Answer: C





Name the quadrant in which Sohan is seated.

- A. 1^{st} Quadrant
- B. 2^{nd} Quadrant
- C. 3^{rd} Quadrant
- D. 4^{th} Quadrant

Answer: D





Name the co-ordinate in which Dinesh is seated.

- A. 1^{st} Quadrant
- B. 2^{nd} Quadrant
- C. 3^{rd} Quadrant
- D. 4^{th} Quadrant

Answer: B





Which of the following is the correct distance formula ?

A.
$$\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$$

B. $\sqrt{(x_2-x_1)^2+(y_2+y_1)^2}$
C. $\sqrt{(x_2+x_1)^2+(y_2+y_1)^2}$
D. $\sqrt{(x_2-x_1)^2+(y_2+y_1)^2}$



