



NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH

Affiliated to CBSE – New Delhi- Affiliation Number - 5730008

Subject: MATHEMATICS

WORKSHEET -2- 2019 - 20

Class: VIII BLOCK NO: 23,24,25,26 and 28

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I. Multiple choice Questions

- The area of parallelogram is 60cm^2 and one of its altitude is 5cm. The length of Its corresponding side is:
(a). 12cm (b). 6cm (c). 4 cm (d). 2 cm
- The volume of a cube is 64^3 . Its surface area is :
(a). 16cm^2 (b). 64cm^2 (c). 96cm^2 (d). 128cm^2
- 3^{-2} can be written as :
(a). 3^2 (b). $\frac{1}{3^2}$ (c). $\frac{1}{3^{-2}}$ (d). $-\frac{2}{3}$
- The coordinates of a point at a distance of 3 units from the x-axis and 6 units from the y-axis are:
(a). (0, 3) (b). (6, 0) (c). (3, 6) (d). (6, 3)
- The point (3, 4) is at a distance of
(a). 3 from both the axis (b). 4 from both the axis
(c). 4 from the x-axis and 3 from y-axis (d). 3 from x-axis and 4 from y-axis.

II. FILL IN THE BLANKS:

- If the diagonal of a rhombus get doubled then the area of the rhombus becomes ----- Its original area.
- Opposite faces of a cuboid are ----- in area.
- Two cylinders of equal volume have heights in the ratio 1:9. The ratio of their radii is -----
- The multiplicative inverse of 10^{10} is -----
- Very small numbers can be expressed in standard form by using ----- exponents.
- In the point (4, 7), 4 denotes the -----
- All the points with y-coordinate as zero lie on the -----

III. True or false

- The area of any two faces of a cube are equal
- The area of a trapezium becomes 4 times, if its height gets doubled.

15. $5^0=5$

16. $10^{-2}=\frac{1}{100}$

17 A line graph can also be a whole broken line

18. The coordinates of the origin is (0,0)

IV. SHORT ANSWERS TYPE

19. Find the area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm

20. The diagonals of a rhombus are 19.4 cm and 14.7 cm. Find its area

21. If a water sprinkler sprays water 245 cm in each direction, find the area of the garden it covers

22. How many cubic meters of earth must be dug to construct a well 7 m deep and of diameter 2.8 m?

23. Find the capacity of water tank, in liters, whose dimensions are 4.2 m, 3m and 1.8 m?

24. Express $3^{-5} \times 3^{-4}$ as a power of 3 with positive exponent.

25. Express as a power of a rational number with negative exponents $(2^5 \div 2^8) \times 2^{-7}$

26. Find the value of x , so that $(2^{-1} + 4^{-1} + 6^{-1} + 8^{-1}) = 1$

27. Write 0.000005678 in the standard form

28. Plot the given points on a graph sheet a) (5,4) b) (2,0) c) (3,1) d) (0,4)

29. Write the x-coordinate (abscissa) of each of the given points

a). (7,3) b). (5,7) c). (0,5) d). (5,0)

30. Write the y-coordinate (ordinate) of each of the given points

a). (3, 5) b). (4, 0) c). (2, 7) d). (0, 4)

V. LONG ANSWER TYPE

31. The area of a trapezium with equal non-parallel sides is 168 m^2 . If the lengths of the parallel are 36 m and 20 m, find the length of the non-parallel sides.

32. A road roller makes 250 complete revolutions to move once over to level a road. Find the area of the road levelled if the diameter of the road roller is 84 cm and the length is 1 m.

33. By what number should $(-15)^{-1}$ be divided so that the quotient may be equal to $(-5)^{-1}$?

34. If $5^{3x-1} \div 25 = 125$, Find the value of x .

35. Find the value of p , if $[-\frac{5}{7}]^2 \times [\frac{7}{-5}]^5 \times [\frac{-5}{7}]^{-6} = [\frac{7}{-5}]^{5-2p}$

36. The cost of a notebook is Rs.10 Draw a graph after making a table showing cost of 2,3,4,,.....note books .Use it to be

a).the cost of 7 notebooks.

b). the number of notebooks that can be purchased with Rs: 50.

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