



# DELHI PUBLIC SCHOOL, VIJAYAWADA

HOLIDAY HOMEWORK - 2019-20

Subject: Mathematics

Class : VIII

Name: \_\_\_\_\_

DO THE GIVEN SUMS IN YOUR REVISION NOTES & ALSO WIRTE THE FINAL ANSWER IN THE GIVEN BOX :-

Answers

1. Area of a rectangular field is  $2ac - 3bc - 9ab + 6a^2$  units. It's length is  $(c+3a)$  units. Find its breadth.

2.  $(3x+5y)^2 - 60xy$  will be the square of .....

3. Length, breadth and height of a cuboid are respectively  $2x^2, \frac{1}{2x}$  and  $\frac{1}{x}$ . What is its volume.

4. Certain sum is given for simple interest at the rate of 5% p.a. for two years. If the same sum is given for compound interest under similar conditions and difference between the two interests is ₹ 25, find the sum lended.

5. Square root of square of 9 is .....

6. Find the whole number which is equal to half of its square?

7. What are the equations for x-axis and y-axis

8. If  $p = (-1)^{205}, q = (-1)^{202}$  then the value of  $p+q$  is .....

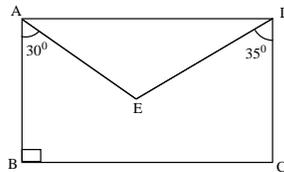
9. An object costed ₹ 640 to manufacture. It's marked price is decided 12% of its cost over and above the cost of manufacture. Find its cost price.

10. 12 tables cost price is equal to 9 tables selling price. What would be the gain percent.

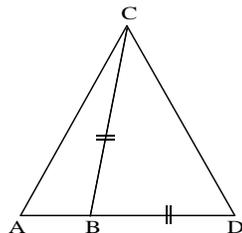
11. Solve : 15% of 57600 - 12% of 57600

12. In the below figure  $\overline{AB} \parallel \overline{CD}, \angle BAE = 30^\circ$  and  $\angle CDE = 35^\circ$ .

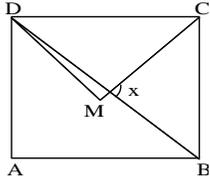
If  $\overline{AB} \perp \overline{BC}$  then find  $\angle AED$ .



13. In the below figure,  $\angle ACB = 60^\circ, \angle CAB = 50^\circ$  and  $BC = BD$ . Find  $\angle BDC$



14. In the below figure, ABCD is a square and BD is a diagonal.  $\Delta MDC$  is an equilateral triangle. Find the value of x.




15. In a parallelogram PQRS,  $\angle R = (5y)^\circ$ ,  $\angle S = (2y + 19)^\circ$ . Find the value of y.

16. Find the value of  $\sqrt{3.38} \times \sqrt{3.92}$

17. Evaluate :  $\sqrt{1\frac{9}{16}} - \sqrt{1\frac{7}{9}}$

18. If a person sells an article for ₹ 400 gaining  $\frac{1}{4}$  of its cost price. Find the gain percent.

19. If  $x = \left(\frac{729}{2197}\right)^{1/3} + \left(\frac{9261}{42875}\right)^{1/3}$  then find x.

20. Find x if  $\sqrt[3]{216} + \sqrt[3]{0.216} + \sqrt[3]{0.000216} = 21.66 - x$

21. Volume of a cube is  $9261000\text{m}^3$ . Find the length of its edge.

22. If 10% of x = 20% of y then x : y = \_\_\_\_\_

23. What is the measure of each interior angle of regular decagon.

24. If  $(2x+3y)=14$ ,  $(2x-3y)=2$  find the value of  $4x^2-9y^2$ .

25. If  $x^2 + y^2 = 25$ ,  $xy = 12$  find the value of  $3(x+y)^2 - 2(x-y)^2$ .

26. Find the compound interest on ₹ 8000 for  $1\frac{1}{2}$  years at 10% per annum interest being payable half-yearly.

27. The radius and height of a cylinder are in the ratio 5 : 7 and its volume is  $550\text{ cm}^3$ . Find its radius.

28. The radii of two right circular cylinders are in the ratio 2 : 3 and their heights are in the ratio 5 : 4. Calculate the ratio of their curved surface areas.

29. A cuboid has total surface area of  $50\text{m}^2$  and lateral surface area of  $30\text{m}^2$ . Find the area of its base.

30. At what rate percent per annum simple interest, will a sum of money double itself in 10 years.



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Class – 8

<b>English</b>	Assignment 1 in English Plus, Pg.No.237
<b>Telugu</b>	నోట్బుక్లో ప్రతి పాఠానికి ముందు ఇచ్చిన కంఠస్థ పద్యాలు (8) నోట్బుక్లో ఒక చోట చక్కగా వ్రాయండి.
<b>Hindi</b>	Answer the Question Paper of FA-3.
<b>Science</b>	Write in record book your observations made in the city area during busy hours regarding "Pollution" shown on digital pollution control boards displayed! Also draw it as it is displayed.
<b>Social</b>	Collect the information about the three sectors of Indian Economy and how they are inter depended on each other? Explain it.