



INDIAN SCHOOL AL WADI AL KABIR
DEPARTMENT OF MATHEMATICS (2014-2015)

TOPIC: HOLIDAY PRACTICE QUESTIONS

NAME OF THE STUDENT:

CLASS: VIII SEC:

ROLL NO:

DATE:

1. Find the cube root of 13824 by prime factorisation method.
2. Find the smallest number by which 704 must be divided to obtain a perfect cube.
3. Basha makes a cuboid of plasticine of sides 8cm, 5cm, 7cm. How many such cuboids will he need to form a cube?
4. A shopkeeper bought two TV sets at ₹ 9000 each. He sold one at a profit 10% and the other at a loss of 5%. Find whether he made an overall profit or loss.
5. Anil took a loan ₹ 50000 from a bank. If the rate of interest is 10% per annum, find the difference in amounts he would be paying after $1\frac{1}{2}$ years if the interest is
 - i) Compounded annually
 - ii) Compounded half yearly.
6. A car was bought at ₹ 108000. Its value depreciated at the rate of 9% per annum. Find the value after two years.
7. The area of a trapezium shaped field is $480m^2$, the distance between two parallel sides is 15m and one of the parallel sides is 20 m. Find the other parallel side.
8. The diagonal of a quadrilateral shaped field is 24m and the perpendiculars dropped on it from the remaining opposite vertices are 8m and 13m. Find the area of the field.
9. An aquarium is in the form of a cuboid whose external measures are 80cm X 30cm X 40cm. Find the area of the colour paper needed to cover all the four sides of the aquarium.
10. The lateral surface area of a hollow cylinder is $4224cm^2$. It is cut along its height and formed a rectangular sheet of width 33cm. Find the perimeter of the rectangular sheet.
11. A company packages its milk powder in a cylindrical container whose base has a diameter of 14cm and height 20cm. The company places a label around the surface of the container. If the label is placed 2cm from the top and bottom, what is the area of the label.

12. A milk tank is in the form of cylinder whose diameter is 3 m and length is 7m. Find the quantity of milk in litres that can be stored in the tank?
13. Find the height of a cuboid whose base area is 180cm^2 and volume is 1800cm^3 ?
14. Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is 108m^3 , find the number of hours it will take to fill the reservoir.
15. A 5m 60cm high vertical pole post casts a shadow 3m 20cm long. Find at the same time
- The length of the shadow cast by another pole 10m 50cm high
 - The height of a pole which casts a shadow 5m long
16. A car takes 2 hours to reach a destination by travelling at the speed of 60km/h. How long will it take when the car travels at the speed of 80 km/h?
17. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?
18. A farmer has enough food to feed 10 animals in his cattle for 6 days. How long the food last if would there were 10 more animals in his cattle?
19. Identify the terms, their coefficients for each of the following expressions:
- $5a^2b - 3cb^2$; b) $4xyz + 8x^4y$; c) $3pqr^3 + \frac{2}{3}pq$
20. Subtract $7zy + 3xz - 11xy$ from $2yz - 14xz + 11xyz$
21. Find the area of rectangle whose length and breadth are given respectively: $(5 - 2x)$ and $(3 + 4x)$.
22. Find the volume of the cuboid whose dimensions are ab , $(a - b)$, $4a^2b$ respectively.
23. Simplify:
- $(a^2 + bc)(b - c) + 2(ab + ac)$
 - $(\frac{2}{5}a - 5abc) \times 4(\frac{3}{5}bc^2 + ab)$
24. Find the product of
- $a \times (a + b - c)$
 - $p \times p^2 \times p^3 \times p^4$
25. Radha borrowed ₹ 12000 from Jayaraj at 5% per annum simple interest for 2 years. Ramani borrowed same amount at 4% per annum compound interest. Find who has to pay back more money and by how much?