INDIAN SCHOOL AL WADI AL KABIR
DEPARTMENT OF MATHEMATICS (2015-2016)

WINTER HOLIDAY HOME WORK

CLASS: VIII   NAME OF STUDENT……………………………………………………………… DATE:

1.   The dimensions of an oil can is 60 cm x 35cm x 24 cm. How many square metres of tin sheet is required to make such 15 cans?

2.   Rahul purchased an old sewing machine for ₹ 2875. After spending ₹225 on its repair, he sold it for ₹ 3565. Find his profit or loss percent.

3.   The area of a rhombus is 48cm^2. If one of the diagonal is 8cm, find the length of the other diagonal.

4.   Find the difference between the simple interest and compound interest on₹ 2400 for 2 years at 5% per annum compounded annually.

5.   72 books are packed in 4 cartons of same size. How many cartons are required for 360 books?

6.   Find the volume of a cube whose surface area is 600cm^2

7.   A second hand car bought for ₹ 2, 00,000. Its value depreciated at the rate of 10% per annum Find its value after 2 years?

8.   A table marked at ₹15,000 is available for ₹14,500. Find the discount and discount percent.

9.   Find the smallest number by which 1080 be divided so that the quotient becomes a perfect cube. Also find the cube root of the quotient,

10. Find the compound interest on ₹8000 for $1\frac{1}{2}$ years at 10% p. a compounded

      semi-annually

11. A cylindrical pillar is 3.5m high and 50cm in diameter. Find the cost of painting it at the rate of ₹15 per m^2.

12. Find the diagonal of a quadrilateral whose area is 273cm^{2}and the lengths of the perpendiculars drawn from opposite vertices are 18cm and 24cm respectively.

13. How many cubes of edge 3cm can be cut from a cuboid of dimensions 18cm x 12cm x 9cm?

14. Karan bought two cricket bats for ₹560 and ₹240 respectively. He sold the first bat at a gain of 15% and the second at loss of 5%. Find the loss or gain percent in the whole transaction?

15. Subtract 1+ x^2 +y^2 from the sum of $x^2 – y^2$ and 1-$x^2 – y^2$

16. Simplify and evaluate for m = (-2)   10 m^2 – 3m (5 + 2m) -10

17. The area of a trapezium is 182cm^2 and height 14cm. The one of the parallel sides is shorter than the other by 16cm.Find the length of parallel sides.

18. Multiply (2x^3 + 3y) and (4x – 8y)

19. A worker receives ₹11250 as bonus which is 15% of his annual salary. Find his monthly salary.

20. The circumference of the base of a cylindrical vessel is 132cm and height 25cm.How many litres of water can it hold?

21. A room is 22m long, 8m wide and 10m high. Find the cost white washing four walls and the ceiling at rate of ₹ 15 per m^2.

22. Multiply (2x – 7) (6x^5y -7x^2y^2 – 8y)

23. Raj bought an air conditioner for₹22,000 including tax of 10%. Find the price of the air conditioner before VAT was added.

24. The population of a city is 20,000 this year.it has increased at the rate of 5% per annum. What was the population 2 years ago?

25. A roller of diameter 84cm and length 120cm takes 700 complete revolutions to cove a playground field .Find the area of field in m^2.

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