

INDIAN SCHOOL AL WADI AL KABIR

Holiday Homework

Class: VIII Mathematics 18/12/2018

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| Q.No | Questions | Ans |
| 1 | The surface area of the cube is 294. Find the length of the cube. | 7 cm |
| 2 | A rectangular room is 4.5 m long, 4 m wide and 3 m high. Find the cost of white washing its walls and roof at ₹7.50 per. | ₹517.50 |
| 3 | The diameter of a cylinder is 7 cm and its height is 16 cm. Find   1. Lateral surface area 2. Total surface area 3. volume | 352, 429, 616 |
| 4 | If the volume of a cube is 729Find its surface area. | 486 |
| 5 | If x varies inversely as y and x = 4 when y = 6, find y when x=3? | 8 |
| 6 | A milk tank is in the form of a cylinder whose radius is 1.5m and length is 7m. Find the quantity of milk in litres that can be stored in the tank. | 49500 litres |
| 7 | The area of a trapezium is 540. If the ratio of the parallel sides is 7:5 and the distance between them is 18 cm, find the lengths of the parallel sides. | 35 cm, 25 cm |
| 8 | Find the number of cubes of side 6 cm can be placed in the cuboid whose measures are 64 cm, 54 cm and 30 cm. | 480 |
| 9 | There are 125 students in a hostel. Food provisions for them is for 16 days. How long will these provisions last, if 25 students leave the group? | 20 |
| 10 | A car takes 2 hours to reach a destination by travelling at the speed of 60km/h. how long will it take when car travels at the speed of 80 km/h? | 1 ½ hours |
| 11 | Find the time periods and rate for a sum taken at 8% per annum for 1 years compounded half yearly. |  |
| 12 | The present population of a village is 5408. If it has increased at the rate of 4% every year, what was the population 2 years ago? | 5000 |
| 13 | The present population of a town is 48000. It is increasing at the rate of 5% every year. What will be the increase in population in next 3 years? | 7566 |
| 14 | Calculate the difference between the compound interest and the simple interest on ₹20000 in 2 years at 8% per annum. | ₹128 |
| 15 | List price of an article is ₹ 1050. If 6% sales tax is charged, find the bill amount. | ₹ 1113 |
| 16 | S.P. of a video game is ₹ 749 including 7% VAT. Find the original price of the video game. | ₹ 700 |
| 17 | A dealer gave 9% discount on an electric fan and charges ₹ 728 from the customer. Find the marked price of the fan. | ₹800 |
| 18 | Find the discount and the selling price when marked price is ₹ 575 and discount 12%. | ₹69, ₹506 |
| 19 | David sells two calculators for ₹ 1500 each. He earns a profit of 25%on one and suffers a loss of 25% on the other. Find his total profit or loss percentage on the whole deal. | 6.25% |
| 20 | If two adjacent sides of a rectangle are 5 + 25 and |  |

Happy New Year 2019