**Class – IXHome – Assignment**

**Mathematics**

1. On what sum will the difference between the simple and compound interest for 3 years at 10% P.A. in Rs. 232.50?
2. In what time will Rs. 2400 amount to Rs. 2646 at 10% P.A. compounded semi-annually?
3. The cost of a car, produced 2 years ago, depreciates at the rate of 20% every year.If its present worth is Rs. 315600, find its purchase price.
4. What sum will amount to Rs. 28090 in two years at 6% compound interest? Also find the compound interest.
5. Expand the following:
6. $\left(3x+ \frac{1}{2x}\right)$
7. $\left(\frac{1}{2}x+ \frac{2}{9}y\right)$
8. $\left(x+3\right)\left(x-5\right)$
9. $\left(2x-1\right)$3
10. Simplify:
11. $\left(a+b\right)$2 - $\left(a-b\right)$2
12. $(a+ \frac{1}{a})$2 - $(a- \frac{1}{a})$2

**Class – VII Home – Assignment**

**Mathematics**

1. A shirt was marked at Rs. 540 .It was sold at $\frac{3}{4}$ of the marked price. What was the sale price?
2. Rohit brought a motorcycle for Rs. 36000. He paid $\frac{1}{6 }$ of price in cash and the rest in 12 equal monthly instalments. Find the amount paid every month.
3. Simplify :
4. 4.27 x 0.036
5. 0.7038 ÷ 0.34
6. If 1kg of rice costs Rs. 52.70, then find the cost of 12.5 rice.
7. Simplify : - $\left(\frac{4}{5}-\frac{1}{3}\right) ÷4\frac{1}{5}+ \frac{2}{3} of \left(5\frac{1}{6}-4\frac{3}{8}\right)$

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