## Class VIII

1. The cost of a pair of shoes is Rs. 900 . The sales tax charged was $8 \%$. Find the bill amount.
2. Find the product $(6 a b)\left(4 a^{2} b\right)\left(5 a b^{2}\right)$

OR
Find the product $2 a(3 a+5 a b)$
3. The diagonals of a rhombus are 15 cm and 24 cm . Find the area of the rhombus.
4. Using suitable identity, find the value of $11.7^{2}-8.3^{2}$
5. Find the volume of a cylindrical can of height 25 cm and base radius $14 \mathrm{~cm} .\left[\pi=\frac{22}{7}\right]$

OR
How many 3 metre cubes can be cut from a cuboid measuring $18 \mathrm{~m} \times 12 \mathrm{~m} \times 9 \mathrm{~m}$ ?
6. Simplify $(3 x+5)^{2}-(3 x-5)^{2}$

OR
Find the product using suitable identity $\left(x-\frac{1}{x}\right)\left(x+\frac{1}{x}\right)\left(x^{2}+\frac{1}{x^{2}}\right)\left(x^{4}+\frac{1}{x^{4}}\right)$
7. A rectangular room of dimensions $9 \mathrm{~m} \times 7 \mathrm{~m} \times 3 \mathrm{~m}$ is to be painted. If it costs Rs. 275 per square metre, find the cost of painting the walls of the room.

## OR

A match box measures $4 \mathrm{~cm} \times 2.5 \mathrm{~cm} \times 1.5 \mathrm{~cm}$. What will be the volume of a packet containing 12 such match boxes? How many such packets can be placed in a cardboard box whose size is $60 \mathrm{~cm} \times 30 \mathrm{~cm} \times 24 \mathrm{~cm}$ ?
8. Mahima bought a plot of land for Rs. $32,50,000$. She built a boundary wall around it which cost her Rs. $3,45,000$. She advertised in the local newspaper about her intention to sell it which cost her Rs. 5,000 . She was finally able to sell it for Rs. $39,00,000$. What is her profit per cent?
9. Find the difference between compound interest and simple interest on a sum of Rs. 15000 at the rate of $6 \%$ per annum for 2 years compounded half yearly.

## OR

The value of a car depreciates at the rate of $10 \%$ p. a. What will be its value 2 years hence, if the present value is Rs. 600000 ? Also find the total depreciation during this period.

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