

class 8th

FA 3 Revision Questions Mathematics

Section A

- 1) The product of $2xz$, $3xz$ and $5xy$ is _____.
- 2) $\frac{a^m}{a^n} =$ _____
- 3) $\frac{a^m}{b^m} =$ _____
- 4) standard form of 7800000 is _____
- 5) Total surface area of a cylinder is _____.
- 6) Total surface area of a cuboid is _____.
- 7) Curved surface area of a cylinder is _____.

Section B

- 8) simplify: $(3x+2)^2 - (3x-2)^2$.
- 9) simplify: $(a^2+5)(b^3+3)+5$.
- 10) simplify: $(x^2-5)(x+5)+25$.
- 11) show that $(\frac{4}{3}m - \frac{3}{4}n)^2 + 2mn = \frac{16}{9}m^2 + \frac{9}{16}n^2$
- 12) show that: $(2x+1)^2 - 4x = (2x-1)^2$.
- 13) Evaluate: $\frac{9^1 \times 5}{3^4}$.
- 14) Find the side of a cube whose surface area is 600 cm^2 .

Section C

- 15) show that: $(2pq+3q)^2 - (2pq-3q)^2 = 12pq^2$
- 16) Find the value of 'm' for which $\frac{3^m}{3^2} = 3^6$.
- 17) Find the area of a rhombus whose side is 6cm and whose altitude is 4cm. If one of its diagonals is 8cm long, find the length of the other diagonal.
- 18) The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45cm and 30cm in length. Find the total cost of polishing the floor, if the cost per m^2 is ₹ 4.

Section D

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- 19) water is pouring into a cuboidal reservoir at the rate of 60 liters per minute. If the volume of reservoir is 108 m^3 , find the number of hours it will take to fill the reservoir.
- 20) If $x + \frac{1}{x} = 6$, find the value of $x^2 + \frac{1}{x^2}$.
- 21) Find the value of $\left\{ \left(-\frac{2}{3}\right)^{-2} \right\}^2$.
- 22) Find the value of :
- i) $(3^0 + 4^{-1}) \times 2^2$
 - ii) $\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$.
- 23) simplify: $\frac{25x^4t^4}{5^{-3} \times 10x^8}$, ($t \neq 0$).
- 24) Find the volume of cuboid whose dimensions are (x^2-2) , $(2x+2)$ and $(x-1)$.
- 25) In a stack there are 4 books each of thickness 20mm and 5 paper sheets each of thickness 0.016mm. what is the total thickness of the stack?

All the best