

1) When both numbers in a product 'Pq' are increased by 1, the increase in the product is

- a) 1 b) $P+Q$ c) $P+Q+1$ d) $PQ+1$

2)
$$\left(\frac{4^{m+\frac{1}{4}} \times \sqrt{2 \times 2^m}}{2 \times \sqrt{2^{-m}}} \right)^{\frac{1}{m}}$$

3) CCLXXI = ?

4) If x is even and y is odd, which expression is always even?

- a) $x(1+y)$ b) $xy+y$ c) $2x+y$ d) $x(y+1)+y$

5)
$$\frac{2x \cdot 6}{y56}$$

6) If $x^2 + \frac{1}{x^2} = 36$, then find $\left(x + \frac{1}{x}\right)^2$

7) $1 : \frac{1}{4} :: \frac{1}{4} : P$, find P

8) Simplify:
$$\left[\left(\frac{7}{11}\right)^{-3} \times \left(\frac{21}{22}\right)^3 \right]^{-2}$$