

VII - Mathematics Assignment* No-04 - Exponents and Powers.Simplify

① $(18)^{\frac{1}{3}} \times (768)^{\frac{1}{3}}$

② $(125)^{-\frac{2}{3}} \times (27)^{-\frac{2}{3}}$

③ $(0.000729)^{\frac{5}{6}}$

④ $\left[(51)^{\frac{1}{2}}\right]^4$

⑤ $(64)^{\frac{1}{3}} \times (64)^{\frac{2}{3}} \times (64)^{-\frac{4}{3}}$

⑥ $(125)^{-\frac{2}{3}} \times (64)^{\frac{4}{3}}$

⑦ $(32)^{-\frac{2}{5}} \times (125)^{-\frac{2}{3}}$

⑧ $7 \times 7^{\frac{3}{2}} \times 7^{-\frac{1}{2}}$

⑨ $(729)^{\frac{1}{3}} \times (256)^{\frac{1}{4}}$

⑩ $(1^3 + 2^3 + 3^3)^{\frac{1}{2}}$

ANSWERS

(Q1) 24	(Q5) $\frac{1}{4}$	(Q8) 49
(Q2) $\frac{1}{225}$	(Q6) $\frac{256}{25}$	(Q9) 36
(Q3) 0.00243	(Q7) $\frac{25}{4}$	(Q10) 6
(Q4) 2601		