



1. find the value of the followings

$$\sqrt{12 + \sqrt{12 + \sqrt{12 + \dots \dots \dots \infty}}}$$

- a.4
- b.3
- c.5
- d.7



$$2. \sqrt{30 + \sqrt{30 + \sqrt{30 + \cdots \dots \dots \infty}}}$$

- a. 6
- b. 5
- c. 4
- d. 15



$$3. \sqrt{56 - \sqrt{56 - \sqrt{56 \dots \dots \dots \infty}}}$$

- a. 7
- b. 8
- c. 14
- d. 4



$$4. \sqrt{3 + \sqrt{3 + \sqrt{3 + \dots \dots \dots \infty}}}$$

- a. 3
- b. 1
- c. 4
- d. not



$$5. \sqrt{5 + \sqrt{5 + \sqrt{5 + \dots \dots \dots \infty}}}$$

- a. 5
- b. 1
- c. $\sqrt{5}$
- d. $\frac{1+\sqrt{21}}{2}$



6. $\sqrt{5 \cdot \sqrt{5 \cdot \sqrt{5 \dots \dots \dots \infty}}}$

- a.
- b.
- c.
- d.



7. $\sqrt{15. \sqrt{15. \sqrt{15\sqrt{15} \dots \dots \dots \infty}}}$

- a.
- b.
- c.
- d.



8. $\sqrt{15. \sqrt{15. \sqrt{15\sqrt{15 \dots \dots \dots \infty}}}}$

- a. 15
- b. 10
- c. 5
- d. 3



$$9. \sqrt{5. \sqrt{5. \sqrt{5}}}$$

- a. 5
- b. non
- c. $5^{\frac{7}{8}}$
- d. $5^{\frac{1}{8}}$



$$10. \sqrt{11. \sqrt{11. \sqrt{11. \sqrt{11}}}}$$

- a. $11\frac{15}{16}$
- b. $11\frac{7}{8}$
- c. none
- d. 11



$$11. \sqrt{11 + \sqrt{21 + \sqrt{16}}}$$

- a.4
- b.6
- c.8
- d.10



12. $\sqrt{54 - \sqrt{19 + \sqrt{33 + \sqrt{9}}}}$

- a.7
- b.8
- c.9
- d.10



13. $\sqrt{5 + 2\sqrt{6}}$

- a. $\sqrt{3} + \sqrt{2}$
- b. $\sqrt{3} - \sqrt{2}$
- c. $\sqrt{3} + 2\sqrt{2}$
- d. $2\sqrt{3} + \sqrt{2}$



14. $\sqrt{12} + \sqrt{140}$

- a. $\sqrt{7} + \sqrt{5}$
- b. $\sqrt{7} - \sqrt{5}$
- c. $2\sqrt{7} + \sqrt{5}$
- d. $\sqrt{7} + 2\sqrt{5}$



15. $\sqrt{8} - \sqrt{60}$

- a. $\sqrt{5} - \sqrt{3}$
- b. $\sqrt{5} + \sqrt{3}$
- c. none
- d. $2\sqrt{5} - \sqrt{3}$



16. Find the least number among $\sqrt[3]{2}$, $\sqrt{2}$, $\sqrt[3]{4}$, $\sqrt[6]{5}$,

a. $\sqrt[3]{2}$

b. $\sqrt[3]{4}$,

c. $\sqrt[6]{5}$,

d. $\sqrt{2}$,



17. Find the greatest number among $\sqrt[3]{5}$, $\sqrt{4}$, $\sqrt[3]{6}$, $\sqrt[4]{3}$

a. $\sqrt{4}$

b. $\sqrt[3]{5}$,

c. $\sqrt[3]{6}$

d. $\sqrt[4]{3}$



18. Arrange the $\sqrt[4]{10}$, $\sqrt[3]{6}$, $\sqrt[4]{3}$, $\sqrt[6]{5}$ in ascending order.

- a. $\sqrt[4]{3}, \sqrt[4]{10}, \sqrt[3]{6}, \sqrt[6]{5}$
- b. $\sqrt[6]{5}, \sqrt[4]{3}, \sqrt[4]{10}, \sqrt[3]{6}$,
- c. $\sqrt[3]{6}, \sqrt[4]{3}, \sqrt[6]{5}, \sqrt[4]{10}$,
- d. NOT



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$$[4^3 \times 5^4] \div 4^5 = ?$$

- (A) 39.0625
- (B) 35.6015
- (C) 30.0925
- (D) 29.0825



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If $5^a = 3125$, then the value of $5^{1 - 3}$ is

- (A) 15
- (B) 25
- (C) 125
- (D) 625



If $10^x = ?$, then $10^{-8x} = ?$

- (A) 8
- (B) 16
- (C) 256
- (D) 312



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$$(2.4 \times 10^3) \div (8 \times 10^{-2}) = ?$$

(A) 3×10^{-5}

(B) 3×10^4

(C) 3×10^5

(D) 30



If $a^x = b$, $b^y = c$ and $c^z = a$, then the value of xyz is

- (B) 1
- (C) abc
- (D) $a^b c$



If $2^n + 4 - 2^n + 2 = 3$, then n is equal to

- (A) 4
- (B) 2
- (C) -1
- (D) -2



$$(\text{?})^{1/4} / 8 = 48 / (\text{?})^{3/4}$$

- (1) 344
- (2) 364
- (3) 342
- (4) not



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$$\frac{3}{1^2 \cdot 2^2} + \frac{5}{2^2 \cdot 3^2} + \frac{7}{3^2 \cdot 4^2} + \frac{9}{4^2 \cdot 5^2} + \frac{11}{5^2 \cdot 6^2} + \frac{13}{6^2 \cdot 7^2} + \dots \dots \dots \frac{25}{12^2 \cdot 13^2}$$

is :

- (1) $\frac{1}{100}$
- (2) $\frac{99}{100}$
- (3) none
- (4) $\frac{101}{100}$



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