

# Square Roots AND Cube Roots

1. (i)  $(111)^2 = ?$  (ii)  $(1111)^2 = ?$  (xiii)  $\sqrt[3]{1092727} = ?$  (xiv)  $\sqrt[3]{1520875} = ?$   
(iii)  $(45)^2 = ?$  (iv)  $(65)^2 = ?$  (xv)  $\sqrt[3]{1225043} = ?$  (xvi)  $\sqrt[3]{1560896} = ?$   
(v)  $(85)^2 = ?$  (vi)  $(95)^2 = ?$  (xvii)  $\sqrt[3]{2628072} = ?$   
(vii)  $(47)^2 = ?$  (viii)  $(46)^2 = ?$  5. If  $\sqrt{256} \div \sqrt{x} = 2$ , then x is equal to:  
(ix)  $(49)^2 = ?$  (x)  $(38)^2 = ?$  (a) 64 (b) 128  
(xi)  $(36)^2 = ?$  (xii)  $(34)^2 = ?$  (c) 512 (d) 1024  
(xiii)  $(54)^2 = ?$  (xiv)  $(57)^2 = ?$  6. Given than  $\sqrt{4096} = 64$ , the value of  
(xv)  $(62)^2 = ?$  (xvi)  $(67)^2 = ?$   $\sqrt{4096} + \sqrt{40.96} + \sqrt{.004096}$  is:  
(xvii)  $(53)^2 = ?$  (a) 70.4 (b) 70.464  
2. (i)  $(99)^2 = ?$  (ii)  $(999)^2 = ?$  (c) 71.104 (d) 71.4  
(iii)  $(107)^2 = ?$  (iv)  $(113)^2 = ?$  7.  $\sqrt{248 + \sqrt{52 + \sqrt{144}}}$   
(v)  $(106)^2 = ?$  (vi)  $(93)^2 = ?$  (a) 14 (b) 16  
(vii)  $(87)^2 = ?$  (viii)  $(84)^2 = ?$  (c) 16.6 (d) 18.8  
3. (i)  $\sqrt{7921} = ?$  (ii)  $\sqrt{4489} = ?$  8.  $\frac{338}{169} \times \frac{\sqrt{576}}{12} \times \frac{\sqrt{256}}{8} = ?$   
(iii)  $\sqrt{9216} = ?$  (iv)  $\sqrt{6889} = ?$  (a) 8 (b) 12  
(v)  $\sqrt{3481} = ?$  (vi)  $\sqrt{12544} = ?$  (c) 16 (d) 32  
(vii)  $\sqrt{17956} = ?$  (viii)  $\sqrt{32041} = ?$  9. If  $\sqrt{\frac{x}{169}} = \frac{54}{39}$ , then x is equal to:  
(ix)  $\sqrt{45369} = ?$  (x)  $\sqrt{56169} = ?$  (a) 108 (b) 324  
(xi)  $\sqrt{58081} = ?$  (xii)  $\sqrt{63504} = ?$  (c) 2916 (d) 4800  
(xiii)  $\sqrt{84681} = ?$  10. If  $\sqrt{\left(1 + \frac{27}{169}\right)} = \left(1 + \frac{x}{13}\right)$ , then x equal to:  
4. (i)  $\sqrt[3]{185193} = ?$  (ii)  $\sqrt[3]{226981} = ?$  (a) 1 (b) 3  
(iii)  $\sqrt[3]{474522} = ?$  (iv)  $\sqrt[3]{551368} = ?$  (c) 5 (d) 7  
(v)  $\sqrt[3]{912673} = ?$  (vi)  $\sqrt[3]{592704} = ?$  11. If  $\sqrt{15625} = 125$ , then the value of  
(vii)  $\sqrt[3]{941192} = ?$  (viii)  $\sqrt[3]{250047} = ?$   $\sqrt{15625} + \sqrt{156.25} + \sqrt{1.5625}$  is:  
(ix)  $\sqrt[3]{1442897} = ?$  (x)  $\sqrt[3]{2048383} = ?$  (a) 1.3875 (b) 13.875  
(xi)  $\sqrt[3]{1481544} = ?$  (xii)  $\sqrt[3]{1601613} = ?$  (c) 138.75 (d) 156.25  
12.  $\sqrt{1\frac{9}{16}} = ?$   
(a)  $1\frac{3}{4}$  (b)  $1\frac{1}{4}$



# ANSWERS

1.(i)(12321)	(xiii)(2916)	(viii)(7056)	(xii)(252)	(xi)(114)	14.	(c)
(ii)(1234321)	(xiv)(3249)	3.(i)(89)	(xiii)(291)	(xii)(117)	15.	(b)
(iii)(2025)	(xv)(3844)	(ii)(67)	4.(i)(57)	(xiii)(103)	16.	(a)
(iv)(4225)	(xvi)(4489)	(iii)(96)	(ii)(61)	(xiv)(115)	17.	(b)
(v)(7225)	(xvii)(2809)	(iv)(83)	(iii)(78)	(xv)(117)	18.	(b)
(vi)(9025)	2.(i)(9801)	(v)(59)	(iv)(82)	(xvi)(116)	19.	(d)
(vii)(2209)	(ii)(998001)	(vi)(112)	(v)(97)	(xvii)(138)	20.	(c)
(viii)(2116)	(iii)(11449)	(vii)(134)	(vi)(84)	5. (a)	21.	(d)
(ix)(2401)	(iv)(12769)	(viii)(179)	(vii)(98)	6. (b)	22.	(b)
(x)(1444)	(v)(11236)	(ix)(213)	(viii)(63)	7. (b)	23.	(d)
(xi)(1296)	(vi)(8649)	(x)(237)	(ix)(113)	8. (a)	24.	(a)
(xii)(1156)	(vii)(7569)	(xi)(241)	(x)(127)	9. (b)	25.	(c)
				10. (a)	26.	(d)
				11. (c)	27.	(c)
				12. (b)	28.	(a)
				13. (d)	29.	(c)
					30.	(c)