

4

SQUARE ROOT

வர்க்க மூலம்

TNPSC GROUP-IV

TOPIC - 4

HOME WORK



#FeelFreetoLearn

TNPSC Group-IV {Topic-4 Square Root / வர்க்கமூலம்}

Question: 1

$$\sqrt{638 - \sqrt{169}} = ?$$

Solution:

$$\sqrt{638 - \sqrt{169}} = ?$$

$$? = \sqrt{638 - 13} = \sqrt{625} = 25$$

Question: 2

$$\sqrt{570 + \sqrt{36}} = ?$$

Solution:

$$\sqrt{570 + \sqrt{36}} = ?$$

$$\sqrt{570 + 6} = \sqrt{576} = 24$$

Question: 3

$$\sqrt{59 + \sqrt{16 + \sqrt{81}}} = ?$$

Solution:

$$\sqrt{59 + \sqrt{16 + \sqrt{81}}} = ?$$

$$\sqrt{59 + \sqrt{16 + 9}} = ?$$

$$? = \sqrt{59 + \sqrt{25}} = \sqrt{59 + 5}$$

$$? = \sqrt{64} = 8$$

Question: 4

$$\sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + \sqrt{225}}}}} = ?$$

Solution:

$$\sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + \sqrt{225}}}}} = ?$$

$$? = \sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + 15}}}}$$

$$? = \sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{169}}}}$$

$$? = \sqrt{10 + \sqrt{25 + \sqrt{108 + 13}}}$$

$$? = \sqrt{10 + \sqrt{25 + \sqrt{121}}}$$

$$? = \sqrt{10 + \sqrt{25 + 11}} = \sqrt{10 + \sqrt{36}} = \sqrt{10 + 6} = \sqrt{16} = 4$$

Question: 5

$$\sqrt{248 + \sqrt{52 + \sqrt{144}}} = ?$$

Solution:

$$\sqrt{248 + \sqrt{52 + \sqrt{144}}} = ?$$

$$\sqrt{248 + \sqrt{52 + 12}} = ?$$

$$\sqrt{248 + \sqrt{64}} = ?$$

$$\sqrt{248 + 8} = \sqrt{256} = 16$$

TNPSC Group-IV {Topic-4 Square Root / வர்க்கமூலம்}

Question: 6

$$\sqrt{176 + \sqrt{2401}} = ?$$

Solution:

$$\sqrt{176 + \sqrt{2401}} = ?$$

$$? = \sqrt{176 + 49}$$

$$? = \sqrt{225} = 15$$

Question: 7

$$\sqrt{59 + \sqrt{16 + \sqrt{81}}} = ?$$

Solution:

$$\sqrt{59 + \sqrt{16 + \sqrt{81}}} = ?$$

$$? = \sqrt{59 + \sqrt{16 + 9}} = \sqrt{59 + \sqrt{25}}$$

$$? = \sqrt{59 + 5} = \sqrt{64} = 8$$

Question: 8

$$\sqrt{20 - \sqrt{111 + \sqrt{95 + \sqrt{25}}}} = ?$$

Solution:

$$\sqrt{20 - \sqrt{111 + \sqrt{95 + \sqrt{25}}}} = ?$$

$$? = \sqrt{20 - \sqrt{111 + \sqrt{95 + 5}}}$$

$$? = \sqrt{20 - \sqrt{111 + \sqrt{100}}} =$$

$$\sqrt{20 - \sqrt{111 + 10}} = \sqrt{20 - \sqrt{121}}$$

$$? = \sqrt{20 - 11} = \sqrt{9} = 3$$

Question: 9

$$\sqrt{331 + \sqrt{822 + \sqrt{6035 + \sqrt{2401}}}} = ?$$

Solution:

$$\sqrt{331 + \sqrt{822 + \sqrt{6035 + \sqrt{2401}}}} = ?$$

$$? = \sqrt{331 + \sqrt{822 + \sqrt{6035 + 49}}}$$

$$? = \sqrt{331 + \sqrt{822 + \sqrt{6084}}}$$

$$? = \sqrt{331 + \sqrt{822 + 78}}$$

$$? = \sqrt{331 + \sqrt{900}} = \sqrt{331 + 30} = \sqrt{361} = 19$$

Question: 10

$$\sqrt{248 + \sqrt{51 + \sqrt{169}}} = ?$$

Solution:

$$\sqrt{248 + \sqrt{51 + \sqrt{169}}} = ?$$

$$\sqrt{248 + \sqrt{51 + 13}} = ?$$

$$\sqrt{248 + \sqrt{64}} = ?$$

$$\sqrt{248 + 8} = \sqrt{256} = 16$$