



# SSC GD CONSTABLE 2023



## सफलता का महामंत्र

### DAY-1

# 50 TOP SIMPLIFICATION

## सरलीकरण

# MATHS

LIVE

04:00 PM



1



$$\sqrt{0.00000841}$$

the value of /का मान है

- (1) .029
- (2) .0029
- (3) .00029
- (4) .29



$$\sqrt{40.96} + \sqrt{.4096} + \sqrt{.004096} + \sqrt{.00004096}$$

the value of /का मान है

(1) 7.09

(2) 7.11

(3) 7.12

(4) 7.10

3

$$\frac{2+\sqrt{3}}{2}$$

find the square root /वर्गमूल ज्ञात करे ?



(1)  $\frac{1+\sqrt{3}}{\sqrt{2}}$

(2)  $\frac{\pm 1+\sqrt{3}}{2}$

(3) none

(4)  $\frac{1+\sqrt{3}}{\sqrt{2}}$

4

$$0.342 \times 0.684$$

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$$0.000342 \times 0.000171$$

करे ?

find the square root /वर्गमूल ज्ञात



(1) 2000

(2) 2500

(3) none

(4) 200

5

$$\frac{10.3 \times 10.3 \times 10.3 + 1}{10.3 \times 10.3 - 10.3 + 1}$$



(1) 9.3

(2) 10.3

(3) 12.3

(4) 11.3

6

$\sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + \sqrt{169}}}}}$  का मान है



(1) 3

(2) 9

(3) 4

(4) 5

7

The square root of / वर्गमूल ज्ञात करे ?

$\frac{(0.75)^3}{1-0.75} + [0.75 + (0.75)^2 + 1]$  is:



(1) 2

(2) 3

(3) 4

(4) 1





Simplify :  $1 + \frac{1}{1 + \frac{2}{1 + \frac{3}{1 + \frac{4}{1 + \frac{5}{1}}}}}$

सरल करे  $1 + \frac{1}{1 + \frac{2}{1 + \frac{3}{1 + \frac{4}{1 + \frac{5}{1}}}}}$

(1)  $\frac{11}{7}$

(2)  $\frac{5}{7}$

(3)  $\frac{6}{7}$

(4)  $\frac{2}{7}$

9

The value of  $\sqrt{22 + 8\sqrt{6}} - \frac{1}{\sqrt{22+8\sqrt{6}}}$  is :

$\sqrt{22 + 8\sqrt{6}} - \frac{1}{\sqrt{22+8\sqrt{6}}}$  का मान है:

(1)  $2\sqrt{6}$

(2)  $2\sqrt{3}$

(3) 2

(4) NOT



1

0



$\frac{1}{\sqrt{3}+\sqrt{4}} - \frac{1}{\sqrt{4}+\sqrt{5}} - \frac{1}{\sqrt{5}+\sqrt{6}} - \frac{1}{\sqrt{6}+\sqrt{7}} - \frac{1}{\sqrt{7}+\sqrt{8}} - \frac{1}{\sqrt{8}+\sqrt{9}}$  is  
equal to

$\frac{1}{\sqrt{3}+\sqrt{4}} - \frac{1}{\sqrt{4}+\sqrt{5}} - \frac{1}{\sqrt{5}+\sqrt{6}} - \frac{1}{\sqrt{6}+\sqrt{7}} - \frac{1}{\sqrt{7}+\sqrt{8}} - \frac{1}{\sqrt{8}+\sqrt{9}}$  के  
बराबर है

(1)  $\sqrt{5}$

(2)  $\sqrt{6}$

(3)  $3 + \sqrt{3}$

(4)  $1 - \sqrt{3}$

1  
1

$$\frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90}$$



(1)  $\frac{4}{9}$

(2)  $\frac{7}{30}$

(3)  $\frac{7}{15}$

(4) none



The value of  $9999\frac{9995}{9999} \times 9999$  is:

मान ज्ञात करे

- (1) 99908096
- (2) 99989996
- (3) 99989996
- (4) 99998246



If  $2 = x + \frac{1}{1 + \frac{1}{3 + \frac{1}{4}}}$ , then the value of x is:

यदि  $2 = x + \frac{1}{1 + \frac{1}{3 + \frac{1}{4}}}$ , तो x का मान है:

(1) 5

(2)  $\frac{13}{17}$

(3)  $\frac{18}{17}$

(4)  $\frac{21}{17}$



$$\frac{3}{1^2 2^2} + \frac{5}{2^2 3^2} + \frac{7}{3^2 4^2} + \frac{9}{4^2 5^2} + \frac{11}{5^2 6^2} + \frac{13}{6^2 7^2} + \dots + \frac{23}{11^2 12^2} \text{ is :}$$

(1)  $\frac{1}{100}$

(2)  $\frac{99}{100}$

(3) 1

(4)  $\frac{143}{144}$



Simplify :  $\frac{\frac{1}{3} + \frac{3}{4} \left( \frac{2}{5} - \frac{1}{3} \right)}{1\frac{2}{3} \text{ of } \frac{3}{4} - \frac{1}{4} \text{ of } \frac{4}{5}}$

- (1)  $\frac{1}{63}$
- (2)  $\frac{23}{40}$
- (3)  $\frac{23}{55}$
- (4)  $\frac{23}{63}$





$$9 - 1\frac{2}{9} \text{ of } 3\frac{3}{11} \div 5\frac{1}{7} \text{ of } \frac{7}{9} = ?$$

(1)  $\frac{7}{6}$

(2) 9

(3) 1

(4) 8



$$5 - \left[ \frac{3}{4} + \left\{ 2\frac{1}{2} - \left( 0.5 + \frac{1}{6} - \frac{1}{7} \right) \right\} \right]$$

(1)  $1\frac{19}{84}$

(2)  $2\frac{61}{84}$

(3)  $2\frac{23}{84}$

(4)  $2\frac{47}{84}$



$$1 + \frac{3}{4} + 5\frac{1}{3} + 3\frac{2}{5} + 3 = ?$$

- (1)  $13\frac{29}{60}$
- (2)  $9\frac{29}{60}$
- (3)  $9\frac{2}{5}$
- (4)  $10\frac{39}{60}$



$$\left( 998 \frac{1}{7} + 998 \frac{2}{7} + 998 \frac{3}{7} + 998 \frac{4}{7} + 998 \frac{5}{7} + 998 \frac{6}{7} \right) \text{ is}$$

simplified to:

(1) 2997

(2) 5979

(3) 5994

(4) none



$$\frac{3}{8} \text{ of } 168 \times 15 \div 5 + ? = 549 \div 9 + 235 - 10$$

(1) none

(2) 174

(3) 1

(4) 296



Simplify using BODMAS rule 11-  $[2 \times 9 - \{12 \div (7 - 2 + 1)(13 - 11)\}] = ?$

BODMAS नियम का उपयोग करके सरल करें

(a) -6

(b) -5.5

(c) -4

(d) -3

