





# wifistudy

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**Mock Test**

The value of  $1 + \frac{1}{1 + \frac{2}{1 + \frac{4}{3 + \frac{4}{5}}}}$  ?

$1 + \frac{1}{1 + \frac{2}{1 + \frac{4}{3 + \frac{4}{5}}}}$  का मान क्या है ?

a)  $\frac{12}{29}$

b)  $\frac{8}{19}$

c)  $\frac{48}{29}$

d)  $\frac{4}{19}$

$$3 + \frac{4}{5} = \frac{19}{5}$$

$$1 + \frac{19}{29}$$

$$1 + \frac{2 \times 5}{19}$$

$$1 + \frac{10}{19} = \frac{29}{19}$$

$$\frac{48}{29}$$

$\frac{1}{1+2^{a-b}} + \frac{1}{1+2^{b-a}}$  is equal to

$\frac{1}{1+2^{a-b}} + \frac{1}{1+2^{b-a}}$  बराबर है ?

- a)  $a - b$
- b)  $b - a$
- c) 1
- d) 0

$$\frac{a^x}{a^y} = a^{x-y}$$

$$\frac{2^b}{2^b + 2^a} + \frac{2^a}{2^a + 2^b}$$

$$\frac{2^a + 2^b}{2^b + 2^a}$$

$$\frac{1}{1+2^{a-b}}$$

$$\frac{2^a}{2^b} = 2^{a-b}$$

$$\frac{1}{1+2^a}$$

$$\frac{1}{1+2^b}$$

$$\frac{1}{2} \text{ (3)}$$

$$\frac{3}{4} \div \frac{3}{4}$$

$$\frac{3}{4} \times \frac{4}{3}$$

$$\frac{7}{2} - 3$$

$$\frac{7-6}{2} = \frac{1}{2}$$

The value of  $3\frac{1}{2} - \left[ 2\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left( 1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right]$

$3\frac{1}{2} - \left[ 2\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left( 1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right]$  का मान क्या है ?

a)  $\frac{1}{2}$

b)  $2\frac{1}{2}$

c)  $3\frac{1}{2}$

d)  $9\frac{1}{2}$

$$\frac{5}{4} - \frac{1}{2} = \frac{5-2}{4} = \frac{3}{4}$$

$$\left( \frac{3}{2} - \frac{1}{3} - \frac{1}{6} \right)$$

$$\frac{9-2-1}{6} = \frac{6}{6} = 1$$

$$\left(3\frac{3}{5}\right)^2 + 2 \times 3\frac{3}{5} \times \frac{2}{5} + \left(\frac{2}{5}\right)^2 = ?$$

a) 15

b) 16

c) 17

d) 18

$$\left(\frac{18}{5}\right)^2 + 2 \cdot \frac{18}{5} \cdot \frac{2}{5} + \left(\frac{2}{5}\right)^2$$

$b^2 + 2ba + a^2$

$$(a+b)^2 \rightarrow \left(\frac{2}{5} + \frac{18}{5}\right)^2 = \left(\frac{20}{5}\right)^2 = 4^2 = 16$$

The value of  $5\frac{1}{3} \div 1\frac{2}{9} \times \frac{1}{4} \left(10 + \frac{3}{1-\frac{1}{5}}\right)$   $\frac{55}{4}$

$5\frac{1}{3} \div 1\frac{2}{9} \times \frac{1}{4} \left(10 + \frac{3}{1-\frac{1}{5}}\right)$  का मान ज्ञात करें।

- a) 15 ✓
- b)  $\frac{67}{25}$
- c)  $\frac{128}{11}$
- d)  $\frac{128}{99}$

Handwritten work showing the solution:

$\frac{16}{3} \times \frac{9}{4} \times \frac{1}{4} \times \frac{55}{4}$

$10 + \frac{3 \times 5}{4}$

$10 + \frac{15}{4}$

$\frac{55}{4}$

$15$



What is the value of  $\frac{\sqrt{24} + \sqrt{216}}{\sqrt{96}} = ?$

$\frac{\sqrt{24} + \sqrt{216}}{\sqrt{96}} = ?$  का मान क्या है?  $16 \times 6$   
 $4 \times 4 \times 6$

a)  $2\sqrt{6}$

b)  $4\sqrt{6}$

~~c) 2~~

d) 4

$$\frac{\sqrt{2 \times 2 \times 6^3} + \sqrt{6 \times 6 \times 6}}{\sqrt{4 \times 4 \times 6}}$$

$$= \frac{2\sqrt{6} + 6\sqrt{6}}{4\sqrt{6}}$$

$\frac{2\sqrt{6} + 6\sqrt{6}}{4\sqrt{6}} = \frac{8\sqrt{6}}{4\sqrt{6}} = 2$



**Simplify : सरल करें :**

$$\sqrt{3 + \frac{33}{64}} \div \sqrt{9 + \frac{1}{7}} \times 2\sqrt{3\frac{1}{9}}$$

- a)  $\frac{45}{256}$
- b)  $1\frac{17}{28}$
- c)  $4\frac{3}{8}$
- d)  $2\frac{3}{16}$

The simplified value of  $\frac{3\sqrt{2}}{\sqrt{3}+\sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}}$

$\frac{3\sqrt{2}}{\sqrt{3}+\sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}}$  का सरलीकृत मान क्या है ?

- a)  $\sqrt{2}$
- b)  $\frac{1}{\sqrt{2}}$
- c)  $\sqrt{3} - \sqrt{2}$
- d) 0



**THANK YOU**