

DAY 02

MATHS
SIMPLIFICATION







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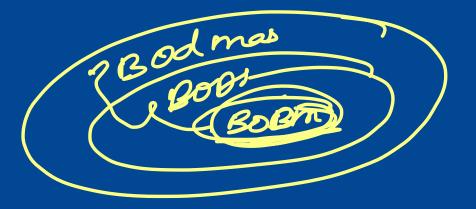


FOR MAH CET FOR BBA BBM BMS BCA & CUET UG PAPER 3 GENERAL TEST

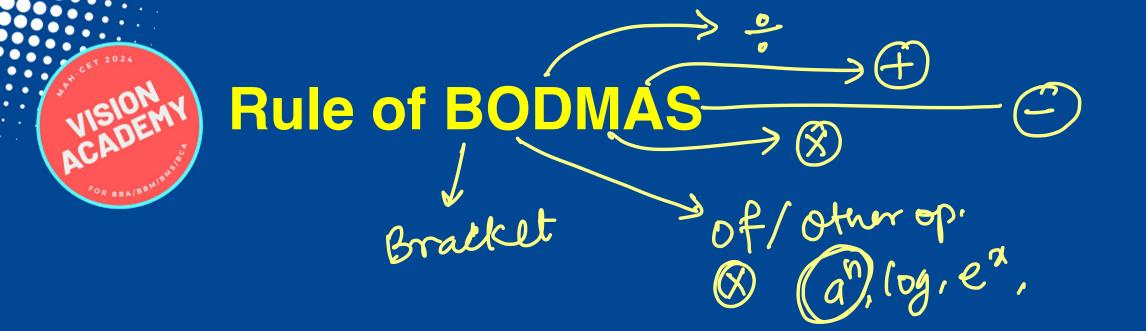


Simplification

Rule of BODMAS



Bracket





If 567567567 is divided by 567, the quotient is

- (a) 111) (8)
- (b) 10101
- 1001001
 - (d) 3

$$\frac{1001001}{567}$$
 Quotient $\frac{567}{567}$ $\frac{567}{567}$ $\frac{567}{567}$ $\frac{567}{567}$ $\frac{567}{567}$ $\frac{567}{567}$

VISION VISION ACADEMY

How man $(\frac{1}{8} \text{ are in } \frac{1}{2})$

- (a) 8
- (b) 4
- (c) 2
- (d) 16

$$\frac{8}{2} = \chi \Rightarrow \chi = 4$$



When 121012 is divided by 12, the remainder is

- (a) 0
- (b) 2
- (c) 3
- (d) 4



y-penuil book n

Ram went to a market and bought one copy of a Mathematics book and two pencils for Rs.165. Rahim went to the same market and bought another copy of the same book and ten pencils of the same brand for Rs.169. The price of each pencil was

(a) Rs. 0.50

(b) Rs. 1

(c) Rs. 0.75

(d) Rs. 2

Ram Rahins

I pered = 0.50



Simplify:

(a)
$$\frac{37}{78}$$

b) $\frac{37}{13}$
c) $\frac{74}{78}$
d) $\frac{74}{13}$ NIX D2
DI \Rightarrow DIX N2

$$\frac{\frac{1}{3} + \frac{1}{4} \begin{bmatrix} 2 - \frac{1}{2} \end{bmatrix}}{\frac{2}{3} \circ f \frac{3}{4} - \frac{3}{4} \circ f \frac{4}{5}} = ?$$

$$\frac{\frac{1}{3} + \frac{1}{4} \begin{bmatrix} 2 - \frac{1}{2} \end{bmatrix}}{\frac{2}{3} \times \frac{1}{4} - \frac{3}{4} \times \frac{1}{5}} = ?$$

$$\frac{1}{3} - \frac{1}{40}$$

$$\frac{1}{3} - \frac{1}{40}$$

$$\frac{1}{40} = \frac{40 - 3}{420 - 6} = \frac{37}{6 \times 13}$$

$$\frac{25 - 122}{20 - 1}$$

$$\frac{37}{79}$$

Conjugate MFD The value of

$$\frac{1}{\sqrt{2}+1} + \frac{1}{\sqrt{3}+\sqrt{2}} + \frac{1}{\sqrt{4}+\sqrt{3}} + \dots + \frac{1}{\sqrt{100}+\sqrt{99}} = 3$$

a)
$$\sqrt{2} + 1 + \sqrt{3} + \sqrt{2} + \sqrt{4} + \sqrt{3} + \cdots + \sqrt{100} + \sqrt{99} = ?$$

$$-\sqrt{4} + \sqrt{3} + \sqrt{2} + \sqrt{4} + \sqrt{3} + \cdots + \sqrt{100} + \sqrt{99} = ?$$

$$-\sqrt{4} + \sqrt{3} + \sqrt{2} + \sqrt{4} + \sqrt{3} + \cdots + \sqrt{100} + \sqrt{99} = ?$$

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$$-\sqrt{4} + \sqrt{3} + \sqrt{4} + \sqrt{3} + \cdots + \sqrt{100} + \sqrt{99} = ?$$

c)
$$\sqrt{99}$$

d)
$$\sqrt{99}$$
 - 1

$$\frac{1}{52+1} = \frac{1}{52+51} \times \frac{52-51}{52-51} = \frac{52-51}{(52)^2-(51)^2}$$

$$\frac{1}{(52+1)} = \frac{1}{(52)^2-(51)^2} =$$



Which of the following value will come in the place of?

$$\frac{128 + 16 \times ? - 7 \times 2}{7^2 - 8 \times 6 + ?^2} = 1$$

- a) 17
- b) 16
- c) 18
- d) 3

$$\frac{8 \times x - 14}{49 - 48 + x^{2}} = 1$$

$$8x - 14 = 1 + x^{2}$$

$$8x - 14 = 1 + x^{2}$$

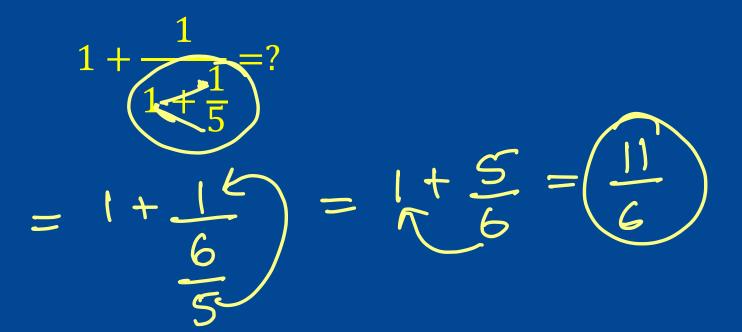
$$9x^{2} - 8x + 1 + 14 = 0$$

$$-3 - 6$$

$$(x - 3)(x - 5) \implies x = 3/5$$

VISION VISION ACADEMY

- a) 11/6
- b) 13/6
- c) 15/6
- d) None



$$\uparrow^{2}$$
, $2x \rightarrow y, 4y$

A man has some hens and cows. If the number of heads: number of feet = 12: 35, find out the number of hens, if the number of heads alone is 48,

$$\frac{H}{22} = \frac{12}{25}$$

$$\chi + (y) = 48 \Rightarrow \chi = 26$$

$$H = 120L$$
 $F = 350L$
 $48 = 120L$ $= 350KY$
 $n = 4$ $= 140$

H= 122L



The difference of the place value and the face value of

>40

the number 3 in 12345 is

(a) 299

(b) 297

(c) 298

(d) None of the above



Workshut

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