CALCULATOR TRICKS

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How to write Negative of a number on Calculator

To Write – 5 on Calculator

Step 1 : Press 5

Step 2 : Press +/− one time

Que. What is the mean deviation about mean of the following numbers ? 11 , 8 , 10 , 10, 12 , 9

(a) 2

(b) 1

(c) 1.5

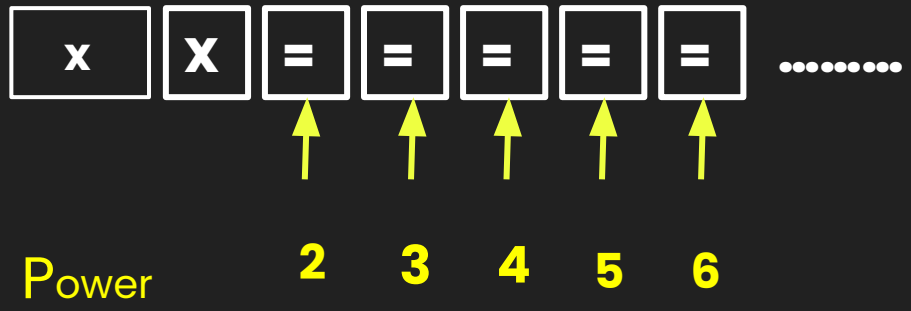
(d) 1.8

MEAN DEVIATION

$$MD_A = \frac{1}{n}\Sigma|x_i - A|$$

Ans : b

SIMPLE POWER (Integer Power x^n)



EXAMPLE :

- 3^4
- 4^5
- 6^4

SQUARE ROOT

How to find √x

- Write x then press √

- **Example :** √81

How to find $\sqrt[4]{x}$

- Write x then press $\sqrt{}$ $\sqrt{}$

- Example $\sqrt[4]{81}$

To find nth root $(x^{1/n})$

STEPS

- Write x
- Press [√] 12 times
- Subtract 1
- Divide by n
- Add 1
- Press [x=] 12 times

EXAMPLE :

- $27^{1/3}$
- $32^{1/5}$

Non - Integer POWER (x ⁿ)

STEPS

- Write base
- Press [√] 12 times
- Subtract 1
- Multiply by power
- Add 1
- Press [X=] 12 times

Example :

$21^{1.2}$

USE OF M± AND M

(4 X 2) + (2 X 5) + (3 X 6)

4 X 2 M± 2 X5 M± 3 X 6 M± M

USE OF M= AND M⊟

(3 X 7) + (2 X 6) - (3 X 8)

3 X 7 M± 2 X 6 M± 3 X 8 M= M⊟

(6 X 5) + (5 X 3) - (2 X 8) =

EXERCISE (A)

Que.9 Pick up the correct value x for which $\frac{x}{0.5}-\frac{1}{0.05}+\frac{x}{0.005}-\frac{1}{0.0005}=0$

a. x = 0

b. x = 1

c. x = 10

d. None of these

ANS : C

EXERCISE (C)

Que.6 The pair satisfying the equations: x+5y = 36, $\frac{x+y}{x-y}=\frac{5}{3}$ is given by

a. (16, 4)

b. (4, 16)

c. (4, 8)

d. None of these

ANS : A

Reciprocal of a Number

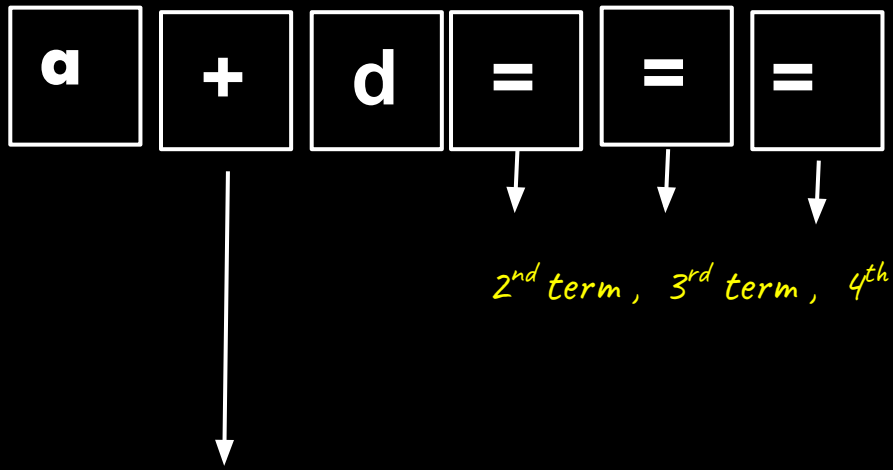
EXAMPLE :

$$\frac{21870}{(0.9)^3}$$

Find reciprocal of x

x	÷	=

To find nth term of an AP

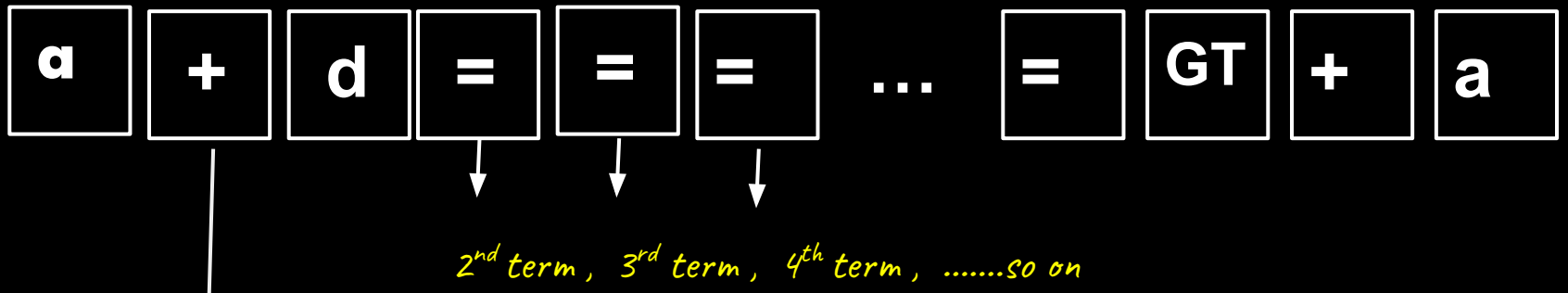


- If d is positive take + or if d is negative take –

Here , a is first term
d is common difference

EXAMPLE : Find the 7th term of the A.P. 8, 5, 2, -1, -4,.....

To find Sum of first n terms of an AP

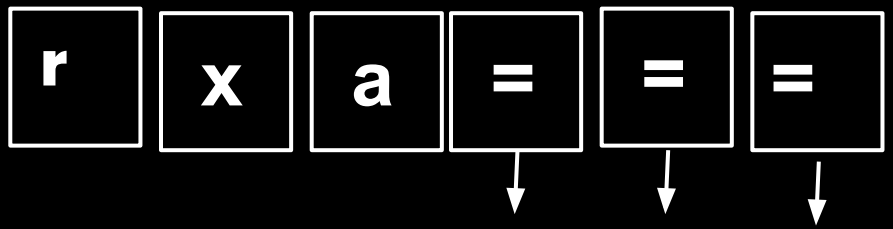


- If d is positive take + or if d is negative take –

Here , a is first term
d is common difference

EXAMPLE : Find the sum of 23 terms of the A.P 5 , 9, 13, 17,.....

To find nth term of a GP



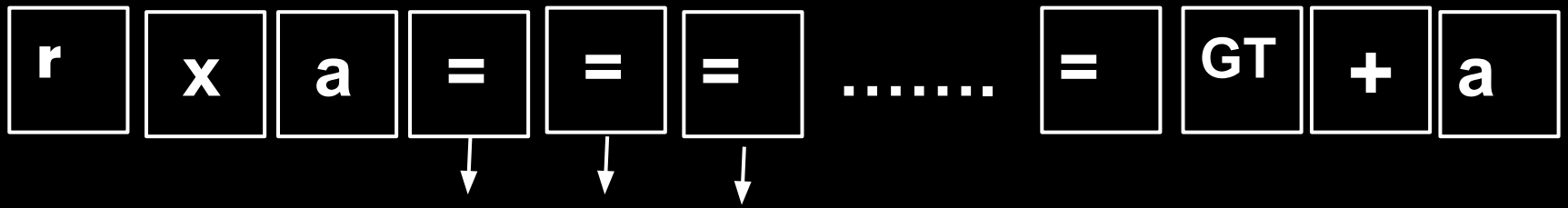
2^{nd} term , 3^{rd} term , 4^{th} term , ...so on

Here , a is first term

r is common ratio

EXAMPLE : Find the 9th term of the G.P. 3 , 6 , 12 , 24 ,,.....

CALCULATOR TRICK TO FIND Sum of n TERMS OF A GP



Here , a is first term

r is common ratio

EXAMPLE : Find the sum of 8 terms of the G .P. 3 , 6 12 ,24 .....

PRESENT VALUE OF ANNUITY REGULAR

PVAR = $\frac{A}{i}\left[1-\frac{1}{(1+i)^n}\right]$

PVAR = A X P(n , i)

TO FIND P (n , i)

1 + i	÷	=	=	=	= ..... n times	GT

EXAMPLE : ₹ 2500 is paid every year for 10 years to pay off a loan . What is the loan amount if interest rate be 14% per annum compounded annually ?

Calculator trick to find LOGARITHM

- FIND $\log_{10} x$
- Type x
- Press $\sqrt{}$ for 13 times
- Subtract 1
- Multiply 3558

EXAMPLE

- $\log_{10} 2$
- $\log_{10} 5$