

Resumão

especial

MATEMÁTICA FINANCEIRA COM A HP 12C

A CALCULADORA

Lançada em 1981, a HP 12C (chamada popularmente de HP) é a calculadora mais conhecida e utilizada por quem necessita trabalhar com cálculos financeiros.

Avançada — trabalha com muitas funções e memórias — e **programável** — possui funções para edição de programas, número ampliado de memórias, etc. — utiliza o método RPN (sigla em inglês de *Reverse Polish Notation*, ou notação polonesa reversa), criado pelo cientista australiano Charles Hamblin nos anos 50 a partir de um aprimoramento do método de notação polonesa, conhecido desde os anos 20. Esse sistema, combinado com outra característica da HP, que é o funcionamento com **pilha operacional**, possibilita realizar operações lógicas encadeadas, com a inserção de todos os dados de uma única vez, diferentemente do que ocorre com as calculadoras que operam no modo algébrico, em que os cálculos complexos devem ser executados etapa a etapa. E por conta desse modo de funcionamento que na HP os elementos devem ser inseridos antes da operação.

Operação	Notação Algébrica (calculadora comum)	Notação Polonesa Reversa (HP 12C)
$a+b$	$a+b$	$ab+$
$\frac{a+b}{c}$	$(a+b)/c$	$ab+c/$
$\frac{a-b-cd}{ef}$	$(a-b-cd)/ef$	$ab*cd+ef/$

Assim, para realizar a operação $4+6$ na HP, procede-se da seguinte forma:



Ou seja, digitam-se primeiro os elementos da operação e, por último, a operação (no caso, soma), sem a necessidade de digitar [=], tecla que existe na calculadora HP (no versão Pilha Simples, a tecla [=] existe, porque um dos diferenciais desse modelo é permitir o uso no modo algébrico de cálculo).

A PILHA OPERACIONAL

A HP utiliza um processo de armazenamento de dados denominado **pilha operacional**, que nada mais é do que um arquivo com quatro registradores (X, Y, Z e T) nos quais são "guardados" os valores necessários à realização das operações. Usa-se o nome "pilha" porque os registros vão sendo "empilhados" dentro da máquina; os dados apresentados no visor são os relativos ao registrador X.

A medida que são inseridos novos dados, eles vão sendo "empilhados" até a realização de operações subsequentes. Utilizando o exemplo anterior, é possível compreender, pela figura a seguir, como funciona a pilha operacional da HP.

USO DO TECLADO

Para selecionar a função auxiliar localizada em uma tecla situada acima de uma tecla, aperte a tecla [F] e, em seguida, a tecla de função.

Para selecionar a função primária impressa na face superior de uma tecla, aperte somente a tecla.



Para selecionar a função secundária impressa em uma face inferior de uma tecla, aperte a tecla [C] e, em seguida, a tecla de função.



Tecla	Preparar	Após a operação
[ON]	T	Limpa os registros
[C]	X	
[CE]	Y	
[M+]	X	O número 4 aparece no visor
[M-]	T	
[M]	X	O número 4 é "empilhado" em Y, mostrando cópia provisória em X
[MC]	Y	O número 6 substitui a cópia provisória em X
[MR]	X	
[M+] (segunda)	T	
[M+] (primária)	Z	
[M+] (terceira)	Y	
[M+] (quarta)	X	
[M+] (quinta)	T	
[M+] (sexta)	Z	
[M+] (sétima)	Y	
[M+] (oitava)	X	
[M+] (nona)	T	
[M+] (décima)	Z	
[M+] (undécima)	Y	
[M+] (duodécima)	X	
[M+] (tridecimo)	T	
[M+] (quatorzavo)	Z	
[M+] (quinzeavo)	Y	
[M+] (dezesseisavo)	X	
[M+] (dezeseteavo)	T	
[M+] (dezoitoavo)	Z	
[M+] (dezanoveavo)	Y	
[M+] (vinteavo)	X	
[M+] (vinte e umavo)	T	
[M+] (vinte e doisavo)	Z	
[M+] (vinte e trêsavo)	Y	
[M+] (vinte e quatroavo)	X	
[M+] (vinte e cincoavo)	T	
[M+] (vinte e seisavo)	Z	
[M+] (vinte e seteavo)	Y	
[M+] (vinte e oitoavo)	X	
[M+] (vinte e noveavo)	T	
[M+] (trintaavo)	Z	
[M+] (trinta e umavo)	Y	
[M+] (trinta e doisavo)	X	
[M+] (trinta e trêsavo)	T	
[M+] (trinta e quatroavo)	Z	
[M+] (trinta e cincoavo)	Y	
[M+] (trinta e seisavo)	X	
[M+] (trinta e seteavo)	T	
[M+] (trinta e oitoavo)	Z	
[M+] (trinta e noveavo)	Y	
[M+] (quarentaavo)	X	
[M+] (quarenta e umavo)	T	
[M+] (quarenta e doisavo)	Z	
[M+] (quarenta e trêsavo)	Y	
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[M+] (quarenta e cincoavo)	T	
[M+] (quarenta e seisavo)	Z	
[M+] (quarenta e seteavo)	Y	
[M+] (quarenta e oitoavo)	X	
[M+] (quarenta e noveavo)	T	
[M+] (cinquentaavo)	Z	
[M+] (cinquenta e umavo)	Y	
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[M+] (cinquenta e cincoavo)	Y	
[M+] (cinquenta e seisavo)	X	
[M+] (cinquenta e seteavo)	T	
[M+] (cinquenta e oitoavo)	Z	
[M+] (cinquenta e noveavo)	Y	
[M+] (sessentaavo)	X	
[M+] (sessenta e umavo)	T	
[M+] (sessenta e doisavo)	Z	
[M+] (sessenta e trêsavo)	Y	
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[M+] (cem e oitoavo)	X	
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[M+] (dois mil e doisavo)	Z	
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[M+] (dois mil e quatroavo)	X	
[M+] (dois mil e cincoavo)	T	
[M+] (dois mil e seisavo)	Z	
[M+] (dois mil e seteavo)	Y	
[M+] (dois mil e oitoavo)	X	
[M+] (dois mil e noveavo)	T	
[M+] (três milavo)	Z	
[M+] (três mil e umavo)	Y	
[M+] (três mil e doisavo)	X	
[M+] (três mil e trêsavo)	T	
[M+] (três mil e quatroavo)	Z	
[M+] (três mil e cincoavo)	Y	
[M+] (três mil e seisavo)	X	
[M+] (três mil e seteavo)	T	
[M+] (três mil e oitoavo)	Z	
[M+] (três mil e noveavo)	Y	
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[M+] (quatro mil e umavo)	T	
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[M+] (quatro mil e trêsavo)	Y	
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[M+] (cinco mil e seteavo)	T	
[M+] (cinco mil e oitoavo)	Z	
[M+] (cinco mil e noveavo)	Y	
[M+] (seis milavo)	X	
[M+] (seis mil e umavo)	T	
[M+] (seis mil e doisavo)	Z	
[M+] (seis mil e trêsavo)	Y	
[M+] (seis mil e quatroavo)	X	
[M+] (seis mil e cincoavo)	T	
[M+] (seis mil e seisavo)	Z	
[M+] (seis mil e seteavo)	Y	
[M+] (seis mil e oitoavo)	X	
[M+] (seis mil e noveavo)	T	
[M+] (sete milavo)	Z	
[M+] (sete mil e umavo)	Y	
[M+] (sete mil e doisavo)	X	
[M+] (sete mil e trêsavo)	T	
[M+] (sete mil e quatroavo)	Z	
[M+] (sete mil e cincoavo)	Y	
[M+] (sete mil e seisavo)	X	
[M+] (sete mil e seteavo)	T	
[M+] (sete mil e oitoavo)	Z	
[M+] (sete mil e noveavo)	Y	
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[M+] (oito mil e umavo)	T	
[M+] (oito mil e doisavo)	Z	
[M+] (oito mil e trêsavo)	Y	
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[M+] (oito mil e cincoavo)	T	
[M+] (oito mil e seisavo)	Z	
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[M+] (oito mil e oitoavo)	X	
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[M+] (nove mil e doisavo)	X	
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[M+] (nove mil e quatroavo)	Z	
[M+] (nove mil e cincoavo)	Y	
[M+] (nove mil e seisavo)	X	
[M+] (nove mil e seteavo)	T	
[M+] (nove mil e oitoavo)	Z	
[M+] (nove mil e noveavo)	Y	
[M+] (dez milavo)	X	

Como dito, é a combinação do sistema RPN e do funcionamento com pilha operacional que permite otimizar as operações na HP em relação às calculadoras convencionais.

Vejamus a seguinte expressão:

$$(7+3) + (15-4)$$

Enquanto em uma calculadora algébrica (comum) é necessário realizar cada operação colocada entre parênteses de uma vez e anotar o resultado, na HP é possível realizar todas as operações simultaneamente:



Note que as operações são feitas seguindo a hierarquia algébrica (primeira, a que está dentro dos parênteses). Assim, a soma entre os parênteses é a última etapa, precedida ape-

nas depois que a calculadora já armazena, na pilha operacional, o resultado da operação de cada um deles.

Nota: a tecla ENTER somente é utilizada para a introdução dos primeiros números. Isso porque, após o segundo número, em cada operação, é dado um comando (somar e subtrair). Assim, a calculadora pode identificar que o número "armazena". Isso não ocorre quando se introduz o primeiro valor. Portanto, ENTER "informa" à calculadora que o próximo número a ser digitado não constitui mais o primeiro elemento da soma e que ela pode armazenar aquele valor já introduzido na pilha operacional.

TESTE SUA CALCULADORA

Para realizar um teste rápido de funcionamento, proceda da seguinte forma: desligue a calculadora. Com a HP desligada, aperte a tecla correspondente ao sinal de multiplicação [x]. Mantendo a tecla pressionada, tecla [=] e, em seguida, tecla [x]. A calculadora apresentará a mensagem "running" (processando) e, na sequência, o visor mostrará todos os bits ligados, com o sinal (-) à frente, dez números e todos as funções provisórias, o que demonstra que sua calculadora está em perfeito funcionamento. Apertando qualquer tecla, a máquina voltará ao modo normal.

MEMÓRIA

A memória da HP é constante, ou seja, conserva os dados armazenados mesmo quando a calculadora é desligada. Há 20 memórias, que são armazenadas em registradores numerados de 0 a 9 e de 0 a 9 (coloca-se o ponto antes do número do registrador).

Por exemplo, para armazenar o número 15 no registrador 3 e o número 71 no registrador 1:



Para recuperar os dados:



Manual Da Hp12c

LP Steffe



Manual Da Hp12c:

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Table of Contents Manual Da Hp12c

1. Understanding the eBook Manual Da Hp12c
 - The Rise of Digital Reading Manual Da Hp12c
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Da Hp12c
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual Da Hp12c
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Da Hp12c
 - Personalized Recommendations
 - Manual Da Hp12c User Reviews and Ratings
 - Manual Da Hp12c and Bestseller Lists
5. Accessing Manual Da Hp12c Free and Paid eBooks
 - Manual Da Hp12c Public Domain eBooks
 - Manual Da Hp12c eBook Subscription Services

- Manual Da Hp12c Budget-Friendly Options
- 6. Navigating Manual Da Hp12c eBook Formats
 - ePub, PDF, MOBI, and More
 - Manual Da Hp12c Compatibility with Devices
 - Manual Da Hp12c Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual Da Hp12c
 - Highlighting and Note-Taking Manual Da Hp12c
 - Interactive Elements Manual Da Hp12c
- 8. Staying Engaged with Manual Da Hp12c
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual Da Hp12c
- 9. Balancing eBooks and Physical Books Manual Da Hp12c
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual Da Hp12c
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Manual Da Hp12c
 - Setting Reading Goals Manual Da Hp12c
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual Da Hp12c
 - Fact-Checking eBook Content of Manual Da Hp12c
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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