

 免費電子書

學習

excel

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1: excel

Microsoft Excel. ExcelVisual Basic for Applications. .

Examples

Excel

Excel. Excel

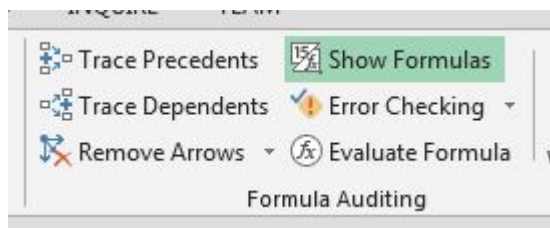
Excel

```
=left("Hello World",5)
```

```
=links("Hello World";5)
```

;,°

“=”。 。 “”””



◦ A1B3 “” A1:B3 ◦ 6

	A	B
1		
2		
3		

D1-D32,36D4 =SUM(D1:D3) 11◦

Sum◦

=SUM(D1:D3)		
D	E	F
2		
3		
6		
11		

COUNT / COUNTA / COUNTIF / COUNTBLANK

E1-E102,3,5,68,91112

F2 =count (E1:E10) 8°

F3 =counta (E1:E10) 8°

F4 =countif (E1:E10, ">5") 5°

F5 =countblank (E1:E10) 2°

Count () °

Counta () °

CountIF () °

CountBlank () °

	E	F
2		
3		=COUNT(E1:E10)
5		=COUNTA(E1:E10)
6		=COUNTIF(E1:E10,">5")
		=COUNTBLANK(E1:E10)
8		
9		
11		
12		

°

LEFT / RIGHT / MID

D1 "Hello World"°

E1 =left (D1, 5) ""

F1 =right (D1, 6) ""

G1 =mid (D1, 7, 5) "World"

left° =LEFT(String, Number of Characters)

right° =RIGHT(String, Number of Characters)

mid° =MID(String, Start Position, Number of Characters)

1°

D	E	F	G
Hello World!	=LEFT(D1,5)	=RIGHT(D1,6)	=MID(D1,7,5)

D	E	F	G
Hello World!	Hello	World!	World

excel <https://riptutorial.com/zh-TW/excel/topic/906/excel>

2: DATEDIF

- = DATEDIF

"Y"	
"M"	
"d"	
"MD"	start_dateend_date。
"YM"	start_dateend_date。
"YD"	start_dateend_date。

。

```
=datedif("2010-01-01","2010-07-21","YD")
```

201

```
=datedif("2016-01-01","2016-07-21","YD")
```

202

Examples

DATEDIF。 Lotus 1-2-3。 DATEDIF。 “date diff”“dated if”。

```
=datedif("2010-01-01","2016-07-21","D")
```

2393

```
=datedif("2010-01-01","2016-07-21","M")
```

78

```
=datedif("2010-01-01","2016-07-21","Y")
```

6

```
=datedif("2010-01-01","2016-07-21","MD")
```

20 -

```
=DATEDIF("2010-01-01","2016-07-21","YM")
```

6 -

```
=DATEDIF("2010-01-01","2016-07-21","YD")
```

201 -

DATEDIF <https://riptutorial.com/zh-TW/excel/topic/2786/datedif>

3: Excel

Examples

Excel

“” “SalesEvents”“Salesperson”“Date”“Sales Amount” =SUM(SalesEvents[Sales Amount]) ◦ ◦ details
◦

Excel ◦ ◦

GetPivotData

◦ GetPivotData◦

Excel

- - Excel
- /◦ /◦
- 1◦
- **BOLDE**Excel
- ◦ Excel◦ 4
- ◦
- ◦ 1/1/20171/2017 / 2017,1 / 2017“Mmmm”◦ nad◦
- 1◦ ◦ ◦
- ◦ Excel◦ ◦

Excel <https://riptutorial.com/zh-TW/excel/topic/6570/excel>

4: Excel

VLOOKUP。 VlookupHlookup。 /。 /。

Examples

	A	B	C	D	E	F	G	H
1	Apple	Red	Fruit		Find			
2	Grape	Purple	Fruit		Vegetable	=index(A1:A3,match(E2,C1:C3,0))		
3	Cucumber	Green	Vegetable					

```
=INDEX (A1 : A3, MATCH (E2, C1 : C3, 0))
```

	A	B	C	D	E	F	G	H
1	Apple	Grape	Cucumber		Find			
2	Red	Purple	Green		Vegetable	=index(A1:C1,match(E2,A3:C3,0))		
3	Fruit	Fruit	Vegetable					

```
=INDEX (A1 : C1, MATCH (E2, A3 : C3, 0))
```

Excel <https://riptutorial.com/zh-TW/excel/topic/9313/excel>

5: Excel

Excel

- = ROUND(number, num_digits)
- = ROUNDUP(number, num_digits)
- = ROUNDDOWN(number, num_digits)
- = MROUND
- = TRUNC([num_digits])
- = INT
- =
- = FLOOR
- = EVEN
- = ODD
- = FIXED([no_commas])

			◦ B23.14159
NUM_DIGITS	2.0	12	◦ -1-3
			◦
			◦
			◦ - 2
no_commas	TRUE	FIXED	◦ - FALSE
[...]			◦ []

◦ ◦

Examples

ROUND

ROUND(num_digits, num_digits) 10-11000-3

◦

...	ROUND ₂	ROUND ₁	ROUND ₀	ROUND ₋₁
23.10651375	23.11	23.1	23	20

...	ROUNDB2	ROUNDB1	ROUND _b	ROUNDB-1
19.16818924	19.17	19.2	19	20
3.92748883	3.93	3.9	4	0
31.38208409	31.38	31.4	31	
38.34235561	38.34	38.3	38	40
7.682632495	7.68	7.7	8	10
35.39315416	35.39	35.4	35	40
20.47004449	20.47	20.5	20	20
20.49775276	20.5	20.5	20	20
2.288822497	2.29	2.3	2	0

- ROUNDUP - ROUNDUP◦
- ROUNDDOWN - ROUNDDOWN◦

TRUNCINT

excelTRUNCnum_digits◦ ◦ 0◦

INTTRUNC◦ ; TRUNCINT◦

```
=TRUNC (123.456,2)
=TRUNC (123.4357,-1)
=TRUNC (-123.123)
=INT (567.89)
=INT (-567.89)
```

```
123.45
120.00
-123.00
567.00
-568.00
```

MROUND

ExcelMROUND10◦

MROUND◦

...	MROUNDB0.25	MROUNDB2
23.93195211	24.00	24

...	MROUND0.25	MROUND2
2.793135388	2.75	2
21.93903064	22.00	22
13.74193739	13.75	14
16.77047412	16.75	16
13.03922302	13.00	14
17.06132896	17.00	18
16.11741694	16.00	16
33.48249592	33.50	34
37.29656687	37.25	38

EVENODD°

CEILINGFLOOR

CEILINGCEILING° FLOOR°

CEILING**4.42**=CEILING(4.42,0.05)°

```
=CEILING(2.2, 1)
=FLOOR(2.2, 1)
=CEILING(-4.8, 2)
=FLOOR(-4.8, 2)
=CEILING(0.456, 0.01)
=FLOOR(0.456, 0.01)
```

```
3
2
-4
-6
0.46
0.45
```

FIXED

FIXEDdecimalsdecimals no_commasno_commas ° decimals° no_commasFALSE °

```
=FIXED(1234.567, 1)
=FIXED(1234.567, -1)
=FIXED(1234.567, 1, TRUE)
=FIXED(1234.567)
```

1,234.6
1,230
1234.6
1234.57

Excel <https://riptutorial.com/zh-TW/excel/topic/1871/excel>

6: Excel

Excel [Excel 2016-2013](#) [Excel 2010](#) [Excel 2007](#)

	1,048,576,384
	255
	409
	1,026
	32,767
	255
	253
	1
	16003224
/	64000
	256
	256
	1,024;512
	200250Excel
Windows	
	66,530
	4
	;251
	32
	200

	10400
	64;
	100
	32
	255
	2,147,483,648
	322GBExcel。 500 - 700MB.64。 .Excel 201664Windows32Excel 2016。 Excel。 。 ""。

	15
	-2.23E-308
	2.23E-308
	1.00E + 308
	-1.00E + 308
	1.7976931348623158e + 308
	-1.7976931348623158e + 308
	8,192
	16,384
	32,767
	2048
	255
	64
	255
	341
	1024

	64,000
	40
	32,767
	1900111904111904
	99991231
	99995959

	255
	255

	1,048,576
	256
	256
	256
	256
MDX	32,767
	32,767

“... ”“...”。“”>“”。Excel“”。>>。“”“”。 “”。“”。。 “”Excel

	256

	32,76730
	32,767
	32;
Excel	0。 Excel...。

Excel [Excel 2016-2013](#) [Excel 2010](#) [Excel 2007](#)

Examples

Excel

Excel [Excel 2016-2013](#) [Excel 2010](#) [Excel 2007](#)

Excel <https://riptutorial.com/zh-TW/excel/topic/10833/excel>

7: MATCH

◦ ◦

Lookup_Array	◦ ◦ 255
	1; -1;0
	◦ 01Lookup_Array -1Lookup_Array ◦ - 1

MATCH◦ INDEX◦ /◦

- VLOOKUP - MATCH◦ ◦
- HLOOKUP - MATCH◦ ◦

Examples

◦

	A	B	C	D	E	F
1	ID	GivenName	Surname	EmailAddress		Emails I'm looking for
2	1	Daniel	Cortez	Daniel.A.Cortez@dodgit.com		Allan.J.Morgan@mailinator.com
3	2	Charles	Russ	Charles.R.Russ@dodgit.com		Charles.R.Russ@dodgit.com
4	3	Victor	Platt	Victor.T.Platt@pookmail.com		Daniel.A.Cortez@dodgit.com
5	4	George	Lehman	George.T.Lehman@mailinator.com		David.D.Spencer@trashymail.com
6	5	Katie	Griffith	Katie.M.Griffith@trashymail.com		Deborah.P.Myers@spambob.com
7	6	Deborah	Myers	Deborah.P.Myers@spambob.com		George.T.Lehman@mailinator.com
8	7	Jennifer	Romano	Jennifer.R.Romano@pookmail.com		Gerald.M.Parker@mailinator.com
9	8	Allan	Morgan	Allan.J.Morgan@mailinator.com		Jamie.M.Johnson@mailinator.com
10	9	Mary	Rice	Mary.J.Rice@trashymail.com		Janice.J.Joachim@dodgit.com
11	10	Patsy	Chafin	Patsy.J.Chafin@trashymail.com		Jennifer.R.Romano@pookmail.com
12	11	Laurence	Marano	Laurence.A.Marano@spambob.com		John.T.Beasley@trashymail.com
13	12	John	Beasley	John.T.Beasley@trashymail.com		Johnny.R.Desjardins@dodgit.com
14	13	John	Mejia	John.E.Mejia@pookmail.com		Katie.M.Griffith@trashymail.com
15	14	Daniel	Torres	Daniel.G.Torres@mailinator.com		Laurence.A.Marano@spambob.com
16	15	Stephanie	Cardenas	Stephanie.E.Cardenas@spambob.com		Mary.J.Rice@trashymail.com
17	16	Donald	Bowen	Donald.K.Bowen@dodgit.com		Michelle.C.Gonzales@dodgit.com
18	17	Gloria	Arrowood	Gloria.W.Arrowood@mailinator.com		Nicholas.J.Melvin@trashymail.com
19	18	Roslyn	Mahaney	Roslyn.O.Mahaney@pookmail.com		Patsy.J.Chafin@trashymail.com
20	19	Lois	Smith	Lois.G.Smith@mailinator.com		Victor.T.Platt@pookmail.com
21	20	James	Ward	James.E.Ward@pookmail.com		Yvonne.H.Neff@spambob.com
22	21	Frances	Jones	Frances.R.Jones@spambob.com		
23	22	Yvette	Lowery	Yvette.A.Lowery@dodgit.com		

MATCH◦ #N / A◦

```
=MATCH(F2,$D$2:$D$200,0)
```

- **F2**
- **\$ D \$ 2\$ D \$ 200**
- **0**

- MATCH YesMissing

```
=IFERROR(IF(MATCH(F2,$D$2:$D$200,0),"Yes"),"Missing")
```

MATCHINDEX

◦ ◦

	A	B	C	D	E	F
1	ID	Name	Surname	Email		Email
2	1	oona	hietala	oona.hietala@example.com		alexander.baier@example.com
3	2	karlisa	almeida	karlisa.almeida@example.com		maria.fischer@example.com
4	3	alisa	lassila	alisa.lassila@example.com		morgan.francois@example.com
5	4	maria	fischer	maria.fischer@example.com		camille.guillot@example.com
6	5	halit	van geere	halit.vangeerenstein@example.com		louanne.mercier@example.com
7	6	morgan	francois	morgan.francois@example.com		alex.bell@example.com
8	7	lucas	walker	lucas.walker@example.com		oona.hietala@example.com
9	8	ross	watts	ross.watts@example.com		ross.watts@example.com
10	9	alex	bell	alex.bell@example.com		selma.johansen@example.com
11	10	laura	rasmusse	laura.rasmussen@example.com		alex.bell@example.com
12	11	gerardus	schelhaas	gerardus.schelhaas@example.com		
13	12	selma	johansen	selma.johansen@example.com		
14	13	vanessa	maier	vanessa.maier@example.com		
15	14	alexander	baier	alexander.baier@example.com		
16	15	louanne	mercier	louanne.mercier@example.com		
17	16	tiago	dupuis	tiago.dupuis@example.com		
18	17	ellen	ellis	ellen.ellis@example.com		
19	18	alicia	harris	alicia.harris@example.com		
20	19	camille	guillot	camille.guillot@example.com		
21	20	jason	cruz	jason.cruz@example.com		
22	21	lester	long	lester.long@example.com		
23	22	julia	burke	julia.burke@example.com		
24	23	arthur	nguyen	arthur.nguyen@example.com		
25	24	theo	bischoff	theo.bischoff@example.com		
26	25	meral	yilmazer	meral.yilmazer@example.com		
27						

MATCHINDEX. ◦ #N / A.

VLOOKUPHLOOKUP.

- **F2alexander.baier@example.com**
- **\$ D \$ 2\$ D \$ 26**
-

0

- \$ B \$ 214 \$ B \$ 26

MATCH <https://riptutorial.com/zh-TW/excel/topic/4419/match>

8: SUMPRODUCT

SUMPRODUCT

- SUMPRODUCTarray1[array2][array3]...
- ◦ SUMPRODUCT#VALUE◦
- SUMPRODUCT◦

Examples

SUMPRODUCT

A1:A3B1:B3

	A	B
1	1	4
2	2	5
3	3	6

```
=SUMPRODUCT(A1:A3,B1:B3)
```

32 ◦

```
A1*B1 = 4  
A2*B2 = 10  
A3*B3 = 18
```

SUMPRODUCT

A1:A3B1:B3

	A	B
1	a	4
2	b	5
3	c	6

```
=SUMPRODUCT(--(A1:A3="c"),B1:B3)
```

(A1:A3="c")

```
A1="c" = FALSE  
A2="c" = FALSE  
A3="c" = TRUE
```


--TRUEFALSE10 ◦

```
--FALSE = 0  
--FALSE = 0  
--TRUE  = 1
```

SUMPRODUCT ◦ 6

```
0*4 = 0  
0*5 = 0  
1*6 = 6
```

SUMIF

SUMPRODUCT <https://riptutorial.com/zh-TW/excel/topic/8096/sumproduct>

9: VLOOKUP

◦

VLOOKUPV. VLOOKUPHLOOKUP.

- VLOOKUPlookup_valuetable_arraycol_index_numrange_lookup

Lookup_Array	◦
	◦ Excel.
Col_index_num	
range_lookup	◦ FALSE0Excel. ◦ TRUE1Excel. ◦ range_lookup ◦ - TRUE

- HLOOKUPVLOOKUP
- MATCH lookup_value
- LOOKUPVLOOKUPMATCH
- range_lookup
- table_array - ""

Examples

VLOOKUPID

Vlookup.

ID 2

	A	B	C
1	EmpID	First name	Surname
2	1	Joe	Bloggs
3	2	Linda	Williams
4	3	John	Smith
5			

=VLOOKUP (2, \$A\$2:\$C\$4, 3, 0)

- 2
- \$ A \$ 2\$ C \$ 4
- 3
- 0

ID VLOOKUPVLOOKUP #N/A

VLOOKUP“”

range_lookupFALSE。 TRUE - 。 。

	A	B
	Monthly spend	
1	(on or over) ▾	Bonus ▾
2	0	0%
3	250	1%
4	500	2.5%
5	750	4%
6	1000	5%
7		

2501; 5002.5。

```
=VLOOKUP(261, $A$2:$B$6, 2, TRUE)
```

VLOOKUP_A261 - >1%。 。

- 261
- \$ A \$ 2\$ B \$ 6
- 2
- TRUE TRUE

VLOOKUP。

range_lookupTRUE1VLOOKUP。 “”VLOOKUPlookup_value。 table_array。 。

	A	B	C	D	E	F
1	ID	Value		Search ID	Formula	Result
2	1	B		4	=VLOOKUP(D2,A\$2:B\$7,2,TRUE)	C
3	3	C		4.5	=VLOOKUP(D3,A\$2:B\$7,2,TRUE)	C
4	5	D		5	=VLOOKUP(D4,A\$2:B\$7,2,TRUE)	D
5	7	E		5.5	=VLOOKUP(D5,A\$2:B\$7,2,TRUE)	D
6	9	F		6	=VLOOKUP(D6,A\$2:B\$7,2,TRUE)	D
7	11	G		6.5	=VLOOKUP(D7,A\$2:B\$7,2,TRUE)	D

VLOOKUP

VLOOKUP。

Sheet1

John	12/25/1990
Jane	1/1/2000

Sheet2 John Andy Jane A1 A2 A3

John B1

```
=VLOOKUP (A1, Sheet1!$A$1:$B$4, 2, FALSE)
```

VLOOKUP A1 Sheet2 A1 John

```
Sheet1!$A$1:$B$4
```

Sheet1 AB14 Excel

2

FALSE

B1 B2 B3 B1 shift B1 B2 B3 Ctrl-DB3 B1 Sheet1!A1:B3 Sheet1:A3:B5

John	12/25/1990
Andy	#N/A
Jane	1/1/2000

Andy #N/A

VLOOKUP <https://riptutorial.com/zh-TW/excel/topic/4327/vlookup>

10: Excel

Examples

Excel

◦ “SQLExcel”。

Excel“”Excel。 Microsoft OfficeOS“Microsoft.Jet.OLEDB”“Microsoft.ACE.OLEDB”。 ◦ Excel。 “\$”“”
“]”; ◦ Excel/。

“”SQL。 SQL。

SQLMicrosoft AccessSQL。 JET SQL;Access SQLJET。 SELECT * FROM [Sheet1 \$]SELECT *
FROM MyRangeSELECT * FROM [Sheet1 \$ A1B10]。

Excel <https://riptutorial.com/zh-TW/excel/topic/6328/excel>

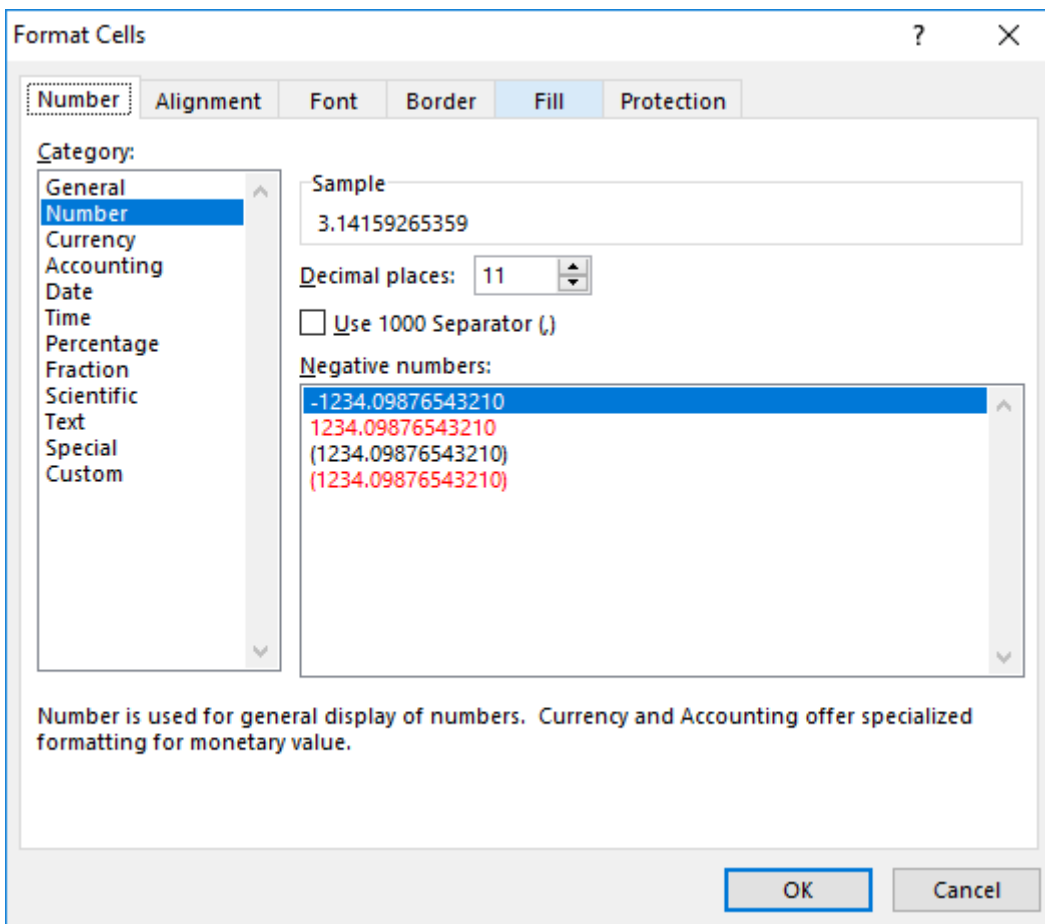
11:

Excel ◦

Excel ◦

◦ ◦

Examples



◦ ◦

◦ =4*ACOT(1) Excel

- 3.14159265359 11
- \$3.14
- 3 1/7

◦ “” ◦

“” # ?/?# "and" ?/?3 and 1/7

<https://riptutorial.com/zh-TW/excel/topic/9990/>

12: Excel

◦ 123◦

Examples

	A	B	C
1	Date	Product A	Service A
2	2000-01-31	178.00	358.00
3	2000-02-29	619.00	553.00
4	2000-03-31	152.00	106.00
5	2000-04-30	662.00	102.00
6	2000-05-31	230.00	290.00
7	2000-06-30	248.00	583.00
8	2000-07-31	438.00	413.00
9	2000-08-31	428.00	401.00
10	2000-09-30	481.00	488.00
11	2000-10-31	631.00	433.00
12	2000-11-30	436.00	449.00
13	2000-12-31	378.00	300.00
14	2001-01-31	641.00	478.00
15	2001-02-28	560.00	550.00
16	2001-03-31	310.00	534.00
17	2001-04-30	301.00	402.00
18	2001-05-31	631.00	397.00
19	2001-06-30	490.00	268.00
20	2001-07-31	234.00	378.00
21	2001-08-31	516.00	220.00
22	2001-09-30	167.00	116.00

DE◦

March 31st2000-03-31◦

= SUMB2B4

E◦

= SUMC2C4

◦ ◦ ◦

◦ Excel◦ F◦

= IFMODA23= 0""""

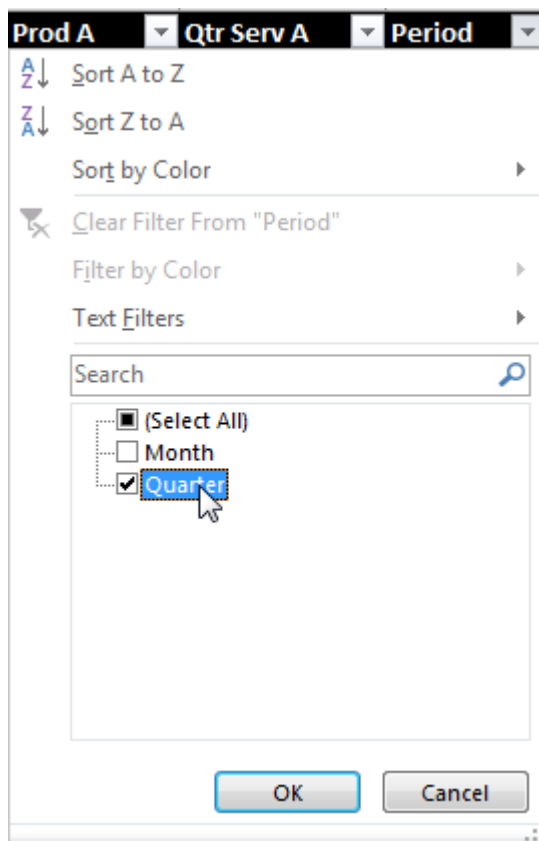
DEF◦

	A	B	C	D	E	F
1	Date	Product A	Service A	Qtr Prod A	Qtr Serv A	Period
2	2000-01-31	330.00	621.00			Month
3	2000-02-29	245.00	664.00			Month
4	2000-03-31	370.00	230.00	945.00	1,515.00	Quarter
5	2000-04-30	437.00	467.00	1,052.00	1,361.00	Month
6	2000-05-31	629.00	260.00	1,436.00	957.00	Month
7	2000-06-30	218.00	198.00	1,284.00	925.00	Quarter
8	2000-07-31	214.00	661.00	1,061.00	1,119.00	Month
9	2000-08-31	309.00	136.00	741.00	995.00	Month
10	2000-09-30	239.00	566.00	762.00	1,363.00	Quarter
11	2000-10-31	126.00	103.00	674.00	805.00	Month
12	2000-11-30	201.00	375.00	566.00	1,044.00	Month
13	2000-12-31	587.00	672.00	914.00	1,150.00	Quarter
14	2001-01-31	341.00	376.00	1,129.00	1,423.00	Month
15	2001-02-28	484.00	186.00	1,412.00	1,234.00	Month
16	2001-03-31	535.00	141.00	1,360.00	703.00	Quarter
17	2001-04-30	594.00	210.00	1,613.00	537.00	Month
18	2001-05-31	309.00	246.00	1,438.00	597.00	Month
19	2001-06-30	514.00	145.00	1,417.00	601.00	Quarter
20	2001-07-31	665.00	568.00	1,488.00	959.00	Month
21	2001-08-31	408.00	666.00	1,587.00	1,379.00	Month
22	2001-09-30	456.00	233.00	1,529.00	1,467.00	Quarter

Format As Table Excel

	A	B	C	D	E	F
1	Date	Product A	Service A	Qtr Prod A	Qtr Serv A	Period
2	2000-01-31	343.00	594.00			Month
3	2000-02-29	278.00	425.00			Month
4	2000-03-31	286.00	175.00	907.00	1,194.00	Quarter
5	2000-04-30	548.00	403.00	1,112.00	1,003.00	Month
6	2000-05-31	452.00	305.00	1,286.00	883.00	Month
7	2000-06-30	226.00	257.00	1,226.00	965.00	Quarter
8	2000-07-31	393.00	546.00	1,071.00	1,108.00	Month
9	2000-08-31	622.00	185.00	1,241.00	988.00	Month
10	2000-09-30	104.00	576.00	1,119.00	1,307.00	Quarter
11	2000-10-31	517.00	623.00	1,243.00	1,384.00	Month
12	2000-11-30	101.00	542.00	722.00	1,741.00	Month
13	2000-12-31	164.00	192.00	782.00	1,357.00	Quarter
14	2001-01-31	130.00	328.00	395.00	1,062.00	Month
15	2001-02-28	393.00	559.00	687.00	1,079.00	Month
16	2001-03-31	238.00	183.00	761.00	1,070.00	Quarter
17	2001-04-30	516.00	485.00	1,147.00	1,227.00	Month
18	2001-05-31	313.00	289.00	1,067.00	957.00	Month
19	2001-06-30	316.00	422.00	1,145.00	1,196.00	Quarter
20	2001-07-31	232.00	416.00	861.00	1,127.00	Month
21	2001-08-31	612.00	175.00	1,160.00	1,013.00	Month
22	2001-09-30	167.00	277.00	1,011.00	868.00	Quarter

F“Period” “Quarters”



	A	B	C	D	E	F
1	Date	Product A	Service A	Qtr Prod A	Qtr Serv A	Period
4	2000-03-31	343.00	630.00	1,375.00	1,234.00	Quarter
7	2000-06-30	148.00	654.00	1,042.00	1,043.00	Quarter
10	2000-09-30	385.00	161.00	1,618.00	813.00	Quarter
13	2000-12-31	118.00	477.00	1,257.00	1,525.00	Quarter
16	2001-03-31	602.00	440.00	1,308.00	1,150.00	Quarter
19	2001-06-30	308.00	420.00	784.00	897.00	Quarter
22	2001-09-30	479.00	433.00	1,466.00	1,580.00	Quarter

Paste-> Special-> Values.

Excel <https://riptutorial.com/zh-TW/excel/topic/10837/excel>

13:

Excel。

00x。

Examples

A1₁₀₀

```
=DEC2BIN (A1)  
=DEC2OCT (A1)  
=DEC2HEX (A1)  
=BIN2DEC (A1)  
=OCT2DEC (A1)  
=HEX2DEC (A1)
```

```
1100100  
144  
64  
    4  
    64  
    256
```

33。

<https://riptutorial.com/zh-TW/excel/topic/10708/>

14:

Examples

	A	B	C	D	E
1	Item	Number	Price		
2	Apple	6	\$0.55		
3	Banana	8	\$0.25		
4	Coconut	2	\$0.89		
5	Date	20	\$0.12		
6	Eggplant	3	\$1.23		
7					
8			Total Cost:		
9			=SUM(B2:B6*C2:C6)		
10			SUM(number1, [number2], ...)		
11			\$13.17		
12					

Number **times** Price

```
=SUM(B2:B6*C2:C6)
```

Ctrl + Shift + Enter **Excel** #VALUE! {...}

```
= SUM(B2:B6*C2:C6)
= SUM({6, 8, 2, 20, 3} * {0.55, 0.25, 0.89, 0.12, 1.23})
= SUM({6 * 0.55, 8 * 0.25, 2 * 0.89, 20 * 0.12, 3 * 1.23})
= SUM({3.30, 2.00, 1.78, 2.40, 3.69})
= 3.30 + 2.00 + 1.78 + 2.40 + 3.69
= 13.17
```

SUMPRODUCT

```
=SUMPRODUCT(B2:B6,C2:C6)
```

Ctrl + Shift + Enter

<https://riptutorial.com/zh-TW/excel/topic/5992/>

15:

Examples

COUNTIF

```
=SUMPRODUCT((A1:A100<>"")/COUNTIF(A1:A100,A1:A100&""))
```

A1:A100 ""。

```
A1:A100 = [1, 1, 2, "apple", "peach", "apple", "", "", -, -, -, ...]
```

"" - ""。

```
A1:A100&"" = ["1", "1", "2", "apple", "peach", "apple", "", "", "", "", "", ...]
```

COUNTIF。 ""

```
COUNTIF(A1:A100,A1:A100&"") = [2, 2, 1, 2, 1, 2, 94, 94, 94, 94, 94, ...]
```

""

```
(A1:A100<>""), which is [1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, ...]
```

COUNTIF(A1:A100,A1:A100&"") ◦

```
SUMPRODUCT((A1:A100<>"")/COUNTIF(A1:A100,A1:A100&""))  
= (1/2 + 1/2 + 1/1 + 1/2 + 1/1 + 1/2 + 0/94 + 0/94 + 0/94 + 0/94 + 0/94 + ...)  
= 4
```

FREQUENCYMATCH

```
=SUMPRODUCT(IF(FREQUENCY(MATCH(A1:A100,A1:A100,0),MATCH(A1:A100,A1:A100,0))>0,1))
```

<https://riptutorial.com/zh-TW/excel/topic/6263/>

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