

# ANITA

# 1011 L.S.I.

## OPERATING INSTRUCTIONS

ANITA—British made, the world's first electronic desk calculator, is now presented in an entirely new concept—ANITA 1011 L.S.I.

Large scale integrated circuit production techniques provide maximum reliability in a machine of very small size.

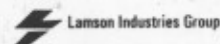
ANITA 1011 L.S.I. is designed with the absolute minimum number of self explanatory controls providing full calculating facilities including rounding, automatic decimal pointing in percentage calculations, and accumulation of individual results. Clearance is automatic and operator actions are restricted to as few as possible in following simple, logical sequences so as to produce accurate results in handling every type of commercial and technical arithmetic. Recommended sequences have been illustrated and are easy to follow. For further advice, please seek assistance from our Customer Advisory Service, and apply to the Area Manager at any of our Sales and Service Offices listed on the back of this leaflet.



### Sumlock Comptometer Ltd

39 ST. JAMES'S STREET, LONDON, S.W.1

Telephone: 01-493 1331 & 1532



Touch 

ENTER 1ST NO
-----------------

 once immediately after switching on.

Rocking 

C
---

 permits an indexing error to be corrected.

Engaging 

C
---

C
↑

 holds an indexed amount or an entered result as a constant.

	EXAMPLES	OPERATING SEQUENCES	RESULTS
ADDITION AND SUBTRACTION	$7 + 65 + 954$	7 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 65 <input type="text" value="+"/> 954 <input type="text" value="+"/>	1026
	$85 - 32 - 154.25$	85 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 32 <input type="text" value="-"/> 154.25 <input type="text" value="-"/>	- 101.25
	$.25 - 1002 + 3025$	.25 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 1002 <input type="text" value="-"/> 3025 <input type="text" value="+"/>	2023.25
MULTIPLICATION AND DIVISION	$23 \times 36$	23 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 36 <input type="text" value="X"/>	828
	$3.25 \times 4.5 \times 14$	3.25 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 4.5 <input type="text" value="X"/> 14 <input type="text" value="X"/>	204.75
	$142 \div 12.5$	142 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 12.5 <input type="text" value="÷"/>	11.36
	$1728 \div 3 \div 12$	1728 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 3 <input type="text" value="÷"/> 12 <input type="text" value="÷"/>	48
	$98765.12345 \times 987.1234567 \div 12345.01234$	98765.12345 <input type="text" value="ENTER"/> <input type="text" value="1ST NO"/> 987.1234567 <input type="text" value="X"/> 12345.01234 <input type="text" value="÷"/>	7897.389438
CONSTANT MULTIPLIER AND CONSTANT DIVISOR	$951.625 \times 2.389375$	2.389375 <input type="text" value="C"/> ↑	2273.788984
	$987654 \times 2.389375$	951.625 <input type="text" value="X"/> 987654 <input type="text" value="X"/>	2359875.776
	$1149.25 \div 2.389375$	1149.25 <input type="text" value="÷"/> 12345679 <input type="text" value="÷"/>	480.9835208
	$12345679 \div 2.389375$	12345679 <input type="text" value="÷"/> <input type="text" value="C"/> ↓	5166907.246

	EXAMPLES	OPERATING SEQUENCES	RESULTS						
<b>PERCENTAGE AND</b> <input type="button" value="C"/>	$12\frac{1}{2}\%$ of 285  What percentage is 365 of 654	285 <input type="button" value="ENTER 1ST NO"/> 12.5 <input type="button" value="%"/> <input type="button" value="×"/> <input type="button" value="C"/>	35.63%						
		365 <input type="button" value="ENTER 1ST NO"/> 654 <input type="button" value="%"/> <input type="button" value="÷"/> <input type="button" value="C"/>	55.81%						
<b>PERCENTAGE INCREASE AND DECREASE</b>	<table border="1"> <tr> <td>1970</td> <td>1971</td> </tr> <tr> <td>240678</td> <td>265916</td> </tr> <tr> <td>265916</td> <td>240678</td> </tr> </table>	1970	1971	240678	265916	265916	240678	240678 <input type="button" value="C"/> ↑ 265916 <input type="button" value="−"/> <input type="button" value="%"/> <input type="button" value="÷"/> <input type="button" value="C"/> <input type="button" value="C"/> ↓	10.49% Increase
	1970	1971							
240678	265916								
265916	240678								
		265916 <input type="button" value="C"/> ↑ 240678 <input type="button" value="−"/> <input type="button" value="%"/> <input type="button" value="÷"/> <input type="button" value="C"/> <input type="button" value="C"/> ↓	− 9.49% Decrease						
<b>ACCUMULATION</b>	$12 \times 13$  $14 \times 15$  <u><math>16 \times 17</math></u>	12 <input type="button" value="ENTER 1ST NO"/> 13 <input type="button" value="×"/> <input type="button" value="ENT S"/> 14 <input type="button" value="ENTER 1ST NO"/> 15 <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="+"/> 16 <input type="button" value="ENTER 1ST NO"/> 17 <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="+"/>	156  210  <u>272</u> <u>638</u>						
	Factors less than 1 should be indexed preceded by 0. (See page 17)	$\cdot 02 \times \cdot 03$  $\cdot 05 \times \cdot 07$  <u><math>\cdot 06 \times \cdot 12</math></u>	0.02 <input type="button" value="ENTER 1ST NO"/> 0.03 <input type="button" value="×"/> <input type="button" value="ENT S"/> 0.05 <input type="button" value="ENTER 1ST NO"/> 0.07 <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="+"/> 0.06 <input type="button" value="ENTER 1ST NO"/> 0.12 <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="+"/>	.0006  .0035  <u>.0072</u> <u>.0113</u>					

	EXAMPLES		OPERATING SEQUENCES		RESULTS	
INVOICING	147 @ £2.12	147	ENTER 1ST NO	£		
	105 @ £0.17½	2.12	×	ENT S	311.64	
DISCOUNT ON GROSS TOTAL	9 @ £3.87	105	ENTER 1ST NO			
	less 8%	.175	×	STORE +	18.38	
LINE BY LINE DISCOUNT	147 @ £2.12 Less 5%	9	ENTER 1ST NO			
	105 @ £0.17½ Less 10%	3.87	×	STORE +	34.83	
PRORATING	9 @ £3.87 plus 7½%	8	×	% STORE -	29.19	
					<u>335.66</u>	
PRORATING	147 @ £2.12 Less 5%	147	ENTER 1ST NO	£		
	105 @ £0.17½ Less 10%	2.12	×		296.06	
PRORATING	9 @ £3.87 plus 7½%	95	%	×	↺ ENT S	
		105	ENTER 1ST NO			
PRORATING		.175	×			
		90	%	×	↺ STORE +	16.54
PRORATING		9	ENTER 1ST NO			
		3.87	×			
PRORATING		107.5	%	×	↺ STORE +	37.44
						<u>350.04</u>
PRORATING	Show each of the following as a percentage of the total.	147	ENTER 1ST NO			
		258	+			
PRORATING		369	+			
		654	+	C ↗		
PRORATING		147	%	÷	↺ ENT S	10.29%
		258	%	÷	↺ STORE +	18.07%
PRORATING		369	%	÷	↺ STORE +	25.84%
		654	%	÷	↺ STORE + C ↘	45.80%
PRORATING						<u>100.00%</u>
	Distribute in proportion 13508 over:	63478	ENTER 1ST NO			
PRORATING		51092	+			
		17118	+			
PRORATING		8134	+			
		13508	÷	ENTER 1ST NO C ↗		
PRORATING		63478	÷	↺ ENT S	6132.52	
		51092	÷	↺ STORE +	4935.92	
PRORATING		17118	÷	↺ STORE +	1653.75	
		8134	÷	↺ STORE + C ↘	785.81	
PRORATING						<u>13508.00</u>



	EXAMPLES	OPERATING SEQUENCES	RESULTS
<p><b>CONSTANT DIVIDEND</b></p>	$778.113 \div .625$ $778.113 \div 4.375$ $778.113 \div 287.5$	<p>778.113    <input type="button" value="ENTER 1ST NO"/></p> <p>.625    <input type="button" value="÷"/></p> <p><input type="button" value="×"/> 4.375    <input type="button" value="÷"/></p> <p><input type="button" value="×"/> 287.5    <input type="button" value="÷"/></p>	<p>1244.9808</p> <p>177.8544</p> <p>2.70648</p>
<p><b>CONSTANT IN STORE</b></p>	$147.75 \times 12 \times .045$  $21.5 \times 144 \times .045$  $5182 \times .045$	<p>.045    <input type="button" value="ENT S"/></p> <p>147.75    <input type="button" value="ENTER 1ST NO"/></p> <p>12    <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="×"/></p> <p>21.5    <input type="button" value="ENTER 1ST NO"/></p> <p>144    <input type="button" value="×"/> <input type="button" value="STORE"/> <input type="button" value="×"/></p> <p>5182    <input type="button" value="ENTER 1ST NO"/> <input type="button" value="STORE"/> <input type="button" value="×"/></p>	<p>79.785</p> <p>139.32</p> <p>233.19</p>
<p><b>TWO CONSTANTS</b></p>	$54 \times .8754 - 1.63$ $63 \times .8754 - 1.63$ $17.5 \times .8754 - 1.63$	<p>.8754    <input type="button" value="ENT S"/></p> <p>1.63    <input type="button" value="C"/> <input type="button" value="↑"/></p> <p>54    <input type="button" value="STORE"/> <input type="button" value="×"/> <input type="button" value="—"/></p> <p>63    <input type="button" value="STORE"/> <input type="button" value="×"/> <input type="button" value="—"/></p> <p>17.5    <input type="button" value="STORE"/> <input type="button" value="×"/> <input type="button" value="—"/> <input type="button" value="C"/> <input type="button" value="↓"/></p>	<p>45.6416</p> <p>53.5202</p> <p>13.6895</p>
<p><b>COMBINED FUNCTIONS</b></p>	$\left[ \frac{9.28 \times 1.36^2 - 8.25}{.077 \times .975^3} + 536.5 \right]^2 \cdot 1.19^4$	<p>9.28    <input type="button" value="ENTER 1ST NO"/></p> <p>1.36    <input type="button" value="×"/> <input type="button" value="×"/></p> <p>8.25    <input type="button" value="—"/></p> <p>.077    <input type="button" value="÷"/></p> <p>.975    <input type="button" value="÷"/> <input type="button" value="÷"/> <input type="button" value="÷"/></p> <p>536.5    <input type="button" value="÷"/> <input type="button" value="ENTER 1ST NO"/> <input type="button" value="×"/></p> <p>1.19    <input type="button" value="×"/> <input type="button" value="×"/> <input type="button" value="×"/> <input type="button" value="×"/></p>	<p>877250.5486</p>

	EXAMPLES	OPERATING SEQUENCES	RESULTS
<p style="text-align: center;"><b>SQUARING CUBING AND RAISING TO HIGHER POWERS</b></p>	$5^2$	5 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/>	25
	$4^3$	4 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="×"/>	64
	$1.08^{12}$	1.08 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="×"/>	2.518170116
	$1.12^{13}$	1.12 <input type="text" value="ENT S"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="×"/> <input type="text" value="STORE"/> <input type="text" value="×"/>	4.363493112
	$1.09^{14}$	1.09 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENT S"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="×"/> <input type="text" value="STORE"/> <input type="text" value="×"/>	3.341727028
$1.1^{23}$	1.1 <input type="text" value="ENT S"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="ENTER 1ST NO"/> <input type="text" value="×"/> <input type="text" value="×"/> <input type="text" value="STORE"/> <input type="text" value="÷"/>	8.954302432	
<p style="text-align: center;"><b>RECIPROCAL AND COMPLEMENTS</b></p>	$\frac{1}{8}$	8 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="÷"/> <input type="text" value="÷"/>	.125
	$1 - .125$	.125 <input type="text" value="ENTER 1ST NO"/> <input type="text" value="÷"/> <input type="text" value="—"/>	.875

**LOAN  
REPAYMENT**

Prepare a table for the repayment of a loan of £14250.00 over 25 years, interest being charged at 9½% p.a.; showing interest portion, capital portion and outstanding balance at the end of each year.

$$\text{Annual Repayment} = 14250 \times \frac{0.095}{1 - \frac{1}{1.095^{25}}}$$

**EXAMPLES**

**OPERATING SEQUENCES**

**RESULTS**

14250

ENT  
S

1.095

ENTER 1ST NO [X] [X] [X] [X]

ENTER 1ST NO [X] [X] [X] [X]

ENTER 1ST NO [÷] [÷]

ENTER 1ST NO [÷] [—]

.095

[÷] ENTER 1ST NO [÷] [÷] STORE [X]

12

[÷] [←] [X]

ENTER 1ST NO [C] ↑

.095

STORE [X] [←]

[—]

STORE [—]

Repeat these last 3 lines to produce the table until year 24. Calculate the final Payment as follows.

.095

STORE [X] [←]

STORE [—]

[+]

Annual Payment adjusted for equal monthly repayments

1509.96

1353.75 Interest Portion

156.21 Capital Portion

14093.79 Outstanding Balance

130.70 Interest Portion

1375.79 Capital Portion

1506.49 Adjusted Final Payment

Year	Annual Repayment	Interest Portion	Capital Portion	Outstanding Balance
1	1509.96	1353.75	156.21	14093.79
2	1509.96	1338.91	171.05	13922.74
3	1509.96	1322.66	187.30	13735.44
23	1509.96	359.64	1150.32	2635.39
24	1509.96	250.36	1259.60	1375.79
25	1506.49	130.70	1375.79	NIL
	37745.53	23495.53	14250.00	



### THE RING DECIMAL POINT

If a result exceeds 999 999 999 the ten most significant figures are displayed with the decimal point shifted ten places:

e.g.  $987654 \times 123456$  is displayed as 12.1931822.

The number of zeros that should follow the displayed amount is the same as the number of digits to the left of the decimal point; thus the result is recorded as 12193182200.

When multiplying small quantities together, the ten most significant figures are displayed with the decimal point shifted ten places in the other direction:

e.g.  $.3048^3 \times .0475$  is displayed as 13450502.13.

The number of zeros that should precede the displayed digits is the same as the number of places to the right of the decimal point; thus the result is recorded as .001345050213.

Small products can always be displayed conventionally if all numbers less than one are preceded by 0.; e.g. .3048 is indexed as 0.3048. If this method is used the result may be accumulated in Store.

The Store must not be used to accumulate results which are displayed with a decimal point on the ring.

**SALES AND SERVICE OFFICES ARE AS FOLLOWS:**

<b>LOCATION</b>	<b>ADDRESS</b>	<b>TELEPHONE NO.</b>
Birmingham	St. Martins' House, Bullring, B5 5DU	021-643 6351
Bristol	Martins Bank Chambers, 4-6 The Horsefair BS1 3HX	0272-26683
Cardiff	7 High Street, CF1 2AW	0222-27148
Hull	45-47 Savile Court HU1 3EE	0482-36246
Kenilworth	18 Talisman Square, CVB 1JB, Warwicks.	0926-57441
Leeds	Empire House, King Edward Street, Briggate LS1 6AU	0532-34491
Leicester	Epic House, Charles Street, LE1 3SG	0533-29426
Liverpool	Spinney House, Church Street, L1 3AS	051-709 9901
London:		
Central	102/8 Clerkenwell Road, E.C.1	01-253 2444
Croydon	Green Dragon House, High Street CR9 1JE	01-686 6411
Ealing	1/3 Ashbourne Parade, Hanger Lane, W5 3QT	01-998 1771
Finchley	Northway House, High Road, Whetstone, N.20	01-445 6321
Ilford	466 Cranbrook Road, Gants Hill, Essex	01-554 8243
Manchester	196 Deansgate M3 3WE	061-832 2781
Middlesbrough	54-56 Albert Road, Teesside	0642-2471
Newcastle-on-Tyne	92/96 Blandford Street	0632-29506
Norwich	Grosvenor House, Prince of Wales Road, NOR 09A	0603-26259
Nottingham	Rodney House, Castle Gate, NG1 7AW	0602-55777
Plymouth	11 Grimstone Terrace, Houndiscombe Road, Mutley	0752-60000
Preston (Lancs.)	Crystal House, Birley Street, PR1 2AQ	0772-51686
Sheffield	Castle Market Building S1 2AH	0742-77286
Southampton	2 Bargate Offices, SO1 0DN	0703-21614
Stoke-on-Trent	London House, London Road, ST4 1QU	0782-47812
Wolverhampton	St. John's House, St. John's Square WV2 4BH	0902-24224
Aberdeen	42 Marischal Street, AB1 2AL	0224-26553
Dundee	40 Bellfield Street	0382-22769
Edinburgh	36 Albany Street EH1 3QH	031-556 2071
Glasgow	17 Cadogan Street C2	041-248 7261
Belfast	58 Howard Street, BT1 6PJ	0232-46161/2
Dublin	1 Crow Street, 2	Dublin 773531/774986
Cork	54 Patrick Street	Cork 23338/9