Welcome to the world of Victor calculator owners

Congratulations on your choice of a Victor electronic calculator. Careful design, coupled with the use of quality materials, painstaking workmanship and advanced research and production facilities, have given you an instrument which, with proper care, will provide years of trouble-free service.

To insure future optimum performance, ask your Victor representative about low cost protection offered by a Victor Full Coverage Maintenance Agreement.

VICTOR COMPTOMETER CORPORATION

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The SERIES 30012 column electronic printing calculators are capable of performing applications requiring the functions of addition, subtraction, multiplication, division, percent, and grand total.

**DATA ENTRY KEYS**

- **0**, **00**, **9**  
  Ten Key Pad.  
  Provides numeral entry.

- **•**  
  Decimal Point.  
  Provides entry of decimal digits.

**ARITHMETIC OPERATION KEYS**

- **+**  
  Plus.  
  Performs addition and repeat addition.

- **−**  
  Minus.  
  Performs subtraction, repeat subtraction, and credit balance.

- **×**  
  Times.  
  Performs multiplication, automatic constant multiplication, and intermediate sequential operations.

- **÷**  
  Divide.  
  Performs division, automatic constant division, and intermediate sequential operations.

- **=**  
  Equals.  
  Completes and terminates multiplication/division calculations.

- **%**  
  Percent.  
  Performs percentage, ratio, add-on, and discount calculations.

- **=+**  
  (Model 306 Only) Completes multiplication/division calculations, and adds the results to the accumulator for Automatic Grand Total Multiplication/Division.

- **=−**  
  (Model 306 Only) Completes multiplication/division calculations and subtracts the results from the accumulator for Automatic Grand Total Multiplication/Division.

**COMMAND FUNCTION KEYS**

- **Subtotal.**  
  Prints but does not clear the contents of the accumulator.

- **Total.**  
  Prints and clears the contents of the accumulator.

- **Non-add/Date.**  
  1. Prints entries for reference on the left side of the tape without affecting calculations.  
  2. Prints and spaces the month, day, and year if entered in the order of month, decimal point (.), day, year.

- **Clear Entry/Clear.**  
  1. After number entry or result, clears Ten Key Pad.  
  2. Otherwise clears all registers.

- **Paper Feed.**  
  Selectable single step or continuous tape advance.

**MODE SWITCHES**

- **Power.**  
  Turns power on and clears all registers.

- **Decimal Format Selector.**  
  1. Provides floating decimal input and fixed decimal output at (0,1,2,3,4,6) settings.  
  2. Provides floating input and output at (F) setting.  
  3. Provides automatic monetary decimal entry at (+) setting.

- **Decimal Rounding Selector.**  
  (Model 306 Only)  
  1. Provides automatic round-off at (5/4) setting.  
  2. Provides automatic truncate at (↓) setting.  
  Note: Model 305 provides automatic (5/4) round-off at all times.

- **Perpetual Subtotal.**  
  (Model 306 Only) Causes last entry to print followed by automatic subtotal in (◊) position. Off in (■) position.

**INDICATIONS**

- **Power On.**  
  Unit is on and ready for operation when lit.

- **Minus Sign.**  
  Identifies negative entries and results in red.

- **Overflow/Error.**  
  Caused by excess capacity and division by 0.
CALCULATION EXAMPLES

The following sequence of calculations highlights the logic and function capability of the SERIES 300. Consult the Mode Selector Legend above each example for correct settings, prior to beginning all calculations.

### PROBLEM EXAMPLE

**Addition & Subtraction W/Credit Balance**

<table>
<thead>
<tr>
<th>ENTER</th>
<th>TOUCH</th>
<th>TAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/4</td>
<td>↓</td>
<td>0</td>
</tr>
<tr>
<td>+</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>+</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>0.00*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>123</th>
<th>+</th>
<th>1.23</th>
</tr>
</thead>
<tbody>
<tr>
<td>456</td>
<td>−</td>
<td>4.56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.33*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>789</th>
<th>+</th>
<th>7.89</th>
</tr>
</thead>
<tbody>
<tr>
<td>456</td>
<td>*</td>
<td>4.56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.56*</th>
</tr>
</thead>
</table>

### PROBLEM EXAMPLE

**Repeat Addition & Subtraction W/Date Reference**

<table>
<thead>
<tr>
<th>ENTER</th>
<th>TOUCH</th>
<th>TAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/4</td>
<td>↓</td>
<td>0</td>
</tr>
<tr>
<td>+</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>+</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>0.00*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>7.476</th>
<th># DATE</th>
<th>7 4 76</th>
<th>. . . . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>654</td>
<td>+</td>
<td>6.54</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+</td>
<td>6.54</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+</td>
<td>6.54</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>789</th>
<th>−</th>
<th>7.89</th>
</tr>
</thead>
<tbody>
<tr>
<td>789</td>
<td>−</td>
<td>7.89</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.84*</th>
</tr>
</thead>
</table>

### PROBLEM EXAMPLE

**Perpetual Subtotal**

<table>
<thead>
<tr>
<th>ENTER</th>
<th>TOUCH</th>
<th>TAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/4</td>
<td>↓</td>
<td>0</td>
</tr>
<tr>
<td>+</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>+</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>+</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>0.00*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>327.75</th>
<th>+</th>
<th>327.75*</th>
</tr>
</thead>
<tbody>
<tr>
<td>316.50</td>
<td>−</td>
<td>316.50*</td>
</tr>
<tr>
<td>301.00</td>
<td>−</td>
<td>301.00*</td>
</tr>
<tr>
<td>486.10</td>
<td>+</td>
<td>486.10*</td>
</tr>
<tr>
<td>25.25</td>
<td>−</td>
<td>25.25*</td>
</tr>
<tr>
<td>460.85</td>
<td>+</td>
<td>460.85*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>460.85*</th>
</tr>
</thead>
</table>
### Problem Example

#### Multiplication

<table>
<thead>
<tr>
<th>Units</th>
<th>Price</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>123</td>
<td>$4.56</td>
<td>$560.88</td>
</tr>
</tbody>
</table>

#### Constant Multiplication

\[
\begin{align*}
.12 \times 11.25 &= 1.35 \\
.12 \times 12.36 &= 1.48 \\
.12 \times 13.47 &= 1.62
\end{align*}
\]

#### Constant Multiplication with Accumulation

<table>
<thead>
<tr>
<th>Department</th>
<th>Floor Space</th>
<th>Expense</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>123'</td>
<td>$449.56</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>456'</td>
<td>$1,666.67</td>
</tr>
<tr>
<td>Marketing</td>
<td>789'</td>
<td>$2,883.77</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>1,368'</strong></td>
<td><strong>$5,000.00</strong></td>
</tr>
</tbody>
</table>

#### Calculation Example

<table>
<thead>
<tr>
<th>Entry</th>
<th>Touch</th>
<th>Tape</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>F</td>
<td></td>
</tr>
</tbody>
</table>

**CE/C**

- **123**
- **456**

\[
\begin{align*}
123 \times 123.00 &= 456 \\
456 &= 1.35 \\
560.88 &= \text{Extension}
\end{align*}
\]

\[
\begin{align*}
.12 \times 11.25 &= 1.35 \\
.12 \times 12.36 &= 1.48 \\
.12 \times 13.47 &= 1.62
\end{align*}
\]

- **11.25**
- **12.36**
- **13.47**

\[
\begin{align*}
.12 &= 1.35 \\
11.25 &= 1.35 \\
12.36 &= 1.48 \\
13.47 &= 1.62
\end{align*}
\]

**CE/C**

- **5000**
- **123**
- **456**
- **789**

\[
\begin{align*}
5000 &= 5000.00 \\
123 &= 123.00 \\
456 &= 456.00 \\
789 &= 789.00 \\
1368 &= 1368.00
\end{align*}
\]

\[
\begin{align*}
5000.00 &= \text{Total Expense} \\
123 &= 123.00 \\
456 &= 449.56 \\
789 &= 1666.67 \\
5000.00 &= \text{Proof}
\end{align*}
\]
PROBLEM EXAMPLE

**Division**

\[ 78.9 \div 1.23 = 64.1463414634 \]

**Constant Division**

\[ \begin{align*}
48.75 \div 975 &= 0.05 \\
214.50 \div 975 &= 0.22 \\
321.75 \div 975 &= 0.33
\end{align*} \]

**Constant Division W/ Accumulation**

<table>
<thead>
<tr>
<th>CITY</th>
<th>SALES</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOSTON</td>
<td>$ 987</td>
<td>50.31%</td>
</tr>
<tr>
<td>CHICAGO</td>
<td>654</td>
<td>33.33%</td>
</tr>
<tr>
<td>LOS ANGELES</td>
<td>321</td>
<td>16.36%</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>$1,962</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Sequential Multiplication/Division**

\[ \begin{align*}
3.21 \times 65.4 &= 205.064 \\
987 &= 0.21
\end{align*} \]
**Problem Example**

**Percentage W/Discount**

- Price: $95.72
- Discount: 15%
- Amount: $14.36
- Net: $81.36

**Percentage W/Tax**

- Price: $3.56
- Tax: 5%
- Amount: $0.18
- Net: $3.74

**Ratio**

- 50 = 25% of 200

**Automatic Grand Total**

<table>
<thead>
<tr>
<th>UNITS</th>
<th>PRICE</th>
<th>EXTENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>$1.25</td>
<td>$13.75</td>
</tr>
<tr>
<td>12</td>
<td>1.36</td>
<td>16.32</td>
</tr>
<tr>
<td>13</td>
<td>1.47</td>
<td>19.11</td>
</tr>
</tbody>
</table>

- Gross: $49.18
- 15% Discount: 7.38
- 5% Tax: 2.09
- Net: $43.89

**Enter Touch Tape**

- **Percentage W/Discount**
  - 95.72 × 95.72
  - 15.00% Discount
  - 14.36 * Discount
  - 81.36% Net

- **Percentage W/Tax**
  - 3.56 × 3.56
  - 5.00% Tax
  - 0.18 * Tax
  - 3.74% Net

- **Ratio**
  - 50 ÷ 200
  - 50.00 %
  - 25.00% Ratio

- **Automatic Grand Total**
  - Model 306 Only
  - 11.00 × 1.25 = 13.75 * Extension
  - 12.00 × 1.36 = 16.32 * Extension
  - 13.00 × 1.47 = 19.11 * Extension
  - 49.18 * Gross
  - 15.00% Discount
  - 7.38 * Discount
  - 41.80%M
  - 2.09 * Tax
  - 43.89% Net
SPECIFICATIONS
USABLE TEMPERATURE: 0-40°C
CIRCUITRY: MOS-LSI
POWER INPUT: 50/60 HZ, 120V ± 15%
50 HZ, 240/220V ± 15%

One year guarantee. This Victor electronic calculator is guaranteed to the original purchaser for one full year for all parts and labor, providing repair work is performed in an authorized Victor Service Center. Guarantee excludes transportation or travel to and from Service Centers.

Any guarantee statutory or otherwise, does not include service and/or replacement or repair of parts when damage or defect is a result of accident, abuse or the elements.

To assure future optimum performance, ask your Victor representative about low cost full coverage offered by a Victor Extended Guarantee Protection plan.

REPLACING PAPER TAPE
1. Open printer cover.
2. Tear off and remove old paper roll. Depress paper advance to remove remaining paper. (Do not pull paper out)
3. Install new roll with leading edge feeding from bottom.
4. Fold leading edge back one inch and insert into rear of printing mechanism, following direction of raised arrows.
5. Lift tear off blade and depress paper advance until sufficient paper feeds through.
6. Snap back tear off blade and tear off excess paper.
7. Replace printing cover.

CHANGING RIBBON
1. Open printer cover.
2. Lift tape between paper roll and printer to provide enough slack to reach ribbon spools.
3. Remove spool not engaged by red lever first, switch lever to other side, and remove second spool.
4. Install new ribbon black edge up placing first spool on spindle not engaged by red lever, switch lever to other side and replace second spool. Thread new ribbon along outside of guides and in front of print wheels.
5. Rotate spools to take up slack and replace printer cover.