# 1. Standard Ancient Greek Numerical Symbols

**Fractions**

| Name | | Unicode | Glyph Variants, Notes, and Examples |
|---|---|---|---|
| Greek Half Symbols | ∠ | | Versions without Unicode codepoints:<br><br>∟<br>"<br><br>Versions without Unicode codepoints:<br><br>∠    2220 (Sm)<br>∟    221F (Sm)<br>C    03F9<br>˘    Breve (approved, awaiting codepoint)<br>C̋    03F2 + 030B<br>s    0073<br> s    Similar to 0282 (L&)<br>S̋    0073 + 030B<br>C˘′    03f9 + 02D8 + 0374<br><br>Example: Kenyon 2.10 |
| Greek Two-Thirds Symbol | ω′ | | Example: Hultsch 1.154 |
| Greek Three-Quarters Symbol | ꝅ | | Lower bulb descends slightly below line.<br>Example: Kenyon 1.143 |

**Weights, Measures and Money: Standard Greek Measure of Time**

| Name | | | Notes |
|---|---|---|---|
| Greek Year Symbol | ∟ | | Descends slightly below line.<br><br>May also be used as number signifier, half (but not in texts with Greek Half Symbol) or Drachma (but not in texts with Greek Drachma Symbol). Very commonly appears in texts with Greek Half Symbol and Greek Drachma Symbol, therefore not a glyph variant.<br>Example: Kenyon 2.122 |

**Weights, Measures and Money: Standard Greek Weights and Money[1]**

The ancient Greeks had two systems of measurement: one for wet, and one for dry products. The *kotyle*, which is the basic measure in both wet and dry systems, is made up of six *kyathoi* or four *oxybapha*. Its value is different depending on local variations, but it is roughly 1/4l.[2]

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[1] Ancient Greeks used the same terminology for weights and currency. Many local variations existed but the Attic-Euboic system appears to have been dominant and this is the system presented in the table below.

[2] Pryce, F.N., Lang, M.L. & Vickers, M. in OCD³ (1996) 943

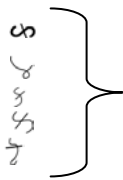| | | | |
|---|---|---|---|
| Greek Talent Symbol | 不 | | Glyph variants: ℃ and Ϛ′. <br> 22BC and 2305 are similar to 不, however these two characters have mathematical properties.1 Talent is *c*.25.75kg and 6,000 Drachmas. <br> Example: Bilabel 2315 |
| Greek Large Stater Symbol | Σ | 03A3 | 1 Large Stater is *c*. 860g and 200 Drachmas |
| Greek Mna | - | - | No standard Character. <br> 1 Mna is *c*. 430g and 100 Drachmas. |
| Greek Small Stater Symbol | Σ | 03A3 | 1 Small Stater is *c*. 8.6g and 2 Drachmas |
| Greek Drachma Symbol | ⋖ | | Versions with Unicode codepoints: <br> ⋖ 22D6 (Sm) <br> < 003C <br> Λ̥ 039B + 0325 <br><br> 1 Drachma is *c*.4.3g. <br> Example: Heiberg 2.29 |
| Greek Obol Symbol | ~ | | Versions with Unicode codepoints:~ 007E <br> ᛜ 223D (Sm) (but needs to match 007E) <br> \ 002F <br> – 2013 <br><br> 1 Obol is c. 0.7g and one sixth of a Drachma. <br> Example: Hultsch 1.220 and Kenyon 1974: 129 |
| Greek Two Obols Symbol | ≊ | | Versions without Unicode equivalents: <br> ≋ <br><br> Versions with Unicode codepoints: <br> ≈ 2248 (Sm) <br> = 003D <br><br> Example: Hultsch 1.226 |
| Greek Three Obols Symbol | Γ | | Versions without Unicode codepoints: <br> ⌒ (Descends slightly below line.) <br><br> Versions with Unicode codepoints: <br> Γ 0393 <br> ʃ 0283 <br> Τ 03A4 <br> ∿ 223F (Sm) <br> Example: Kenyon 1.142, Bilabel 1923:2308, 2314 |
| Greek Four Obols Symbol | Ϝ | | Descends slightly below line. <br><br> Example: Kenyon 1.142 |
| Greek Five Obols Symbol | ⊨ | | Descends slightly below line. <br><br> Example: Kenyon 1.142 |

## Weights, Measures and Money: Standard Greek Measures of Capacity

| | | | |
|---|---|---|---|
| Greek Metretes Symbol | Ⱶ | | This is a liquid measure. <br> 1 Metretes is *c*. 35l and 144 liquid Kotyles. <br> Example: Kenyon 1.153 |

| | | | |
|---|---|---|---|
| Greek Chous Symbol | χᵒ | 03C7 \<superscript\> 03BF | This is a liquid measure. 1 Chous is *c.*3l and 12 liquid Kotyles. |
| Greek Hemichous Symbol | - | - | This is a liquid measure. 1 Hemichous is *c.*1.5l and 12 liquid Kotyles. |
| Greek Medimnos Symbol | - | - | This is a dry measure. 1 Medimnos is *c.* 180l and 768 dry Kotyles. |
| Greek Hekteus Symbol | - | - | This is a dry measure. 1 Hekteus is *c.* 30l and 128 dry Kotyles. |
| Greek Choinix Symbol | - | - | This is a dry measure. 1 Choinix is *c.* 1l and 4 dry Kotyles |
| Greek Kotyle Symbol | Kᵒ | See note | Formed with Greek Kyathos Base Symbol + \<superscript\> 03BF. This is both a liquid and a dry measure. 1 Kotyle is *c.* 250ml. |
| Greek Oxybaphon Symbol | - | - | This is both a liquid and a dry measure. 1 Oxybaphon is *c.* 60ml and ¼ Kotyle. |
| Greek Kyathos Base Symbol | Ҝ | | 039A + 0337. Often written with \<superscript\> 03C5 after it. This is a dry measure. 1 Kyathos is *c.* 40ml and $^1/_6$ Kotyle. Example: Hultsch 1.218 |

## Weights, Measures and Money: Greek Characters for Roman Weights and Measures

Three Greek characters were used to represent weights (and occasionally measures) in the Roman system. The Roman system is based on the Libra or As, of 327.45g. This is divided into 12 Unciae. The Greek translations for these terms are Litra for Libra, and Ounkia[3] for Uncia.

| | | | |
|---|---|---|---|
| Greek Litra Symbol | ᴌ | | Versions without Unicode codepoints:<br><br>Versions with Unicode codepoints:<br><br>ᴌ  1D4C8<br><br>Example: Raeder 1.152 |
| Greek Ounkia Symbol | Γᵒ | | Example: Hultsch 1.220 |
| Greek Xestes Symbol | ∽ | | Versions without Unicode codepoints:<br><br>All glyph variants of each other. Preferred form is ∽.<br><br>Versions with Unicode codepoints:<br>ξ̸  03BE + 0338<br>≁  2241 (Sm)<br><br>Problematic version:<br>Technically an abbreviation, so not within Unicode's remit.<br>Example: Hultsch 1.228 |

**Weights, Measures and Money: Greek Characters for non-Graeco-Roman Measures**

| | | | |
|---|---|---|---|
| Greek Artabe Symbol | ÷ | | All glyph variants of each other. Preferred form is ÷. |
| | | | ⅚ (Idiosyncratic) |
| | | | Versions without Unicode codepoints: |
| | | | <      003C |
| | | | ÷      00F7 |
| | | | Example: Kenyon 2.142 |
| Greek Aroura Symbol | ϛ | | Descends slightly below line. Example: Kenyon 1.143 |

**Weights, Measures and Money: Ancient Greek Medical Measures**

| | | | |
|---|---|---|---|
| Greek Gramma Symbol | Γ᠎ | | Example: Hultsch.1.220 |
| Greek Tryblion Base Symbol | ơ | | Descends slightly below line. Example: Hultsch.1.221 |

**Defined by 'Concept'**

| | xx0 | xx1 |
|---|---|---|
| 0 | ∠ | ÷ |
| 1 | ω | Ⴆ |
| 2 | ੪ | Γ᛫ |
| 3 | ∟ | ঢ় |
| 4 | ⼆ | |
| 5 | < | |
| 6 | ~ | |
| 7 | ≋ | |
| 8 | ⌒ | |
| 9 | Ϝ | |
| A | ⊨ | |
| B | Ⱶ | |
| C | к | |
| D | ℰ | |
| E | Ӷ | |
| F | ξ | |

**Defined by 'Characters'**

| | xx0 | xx1 |
|---|---|---|
| 0 | ∠ | Γ᛫ |
| 1 | ” | ঢ় |
| 2 | ω | |
| 3 | ੪ | |
| 4 | ∟ | |
| 5 | ⼆ | |
| 6 | ≋ | |
| 7 | ⌒ | |
| 8 | Ϝ | |
| 9 | ⊨ | |
| A | Ⱶ | |
| B | ♂ | |
| C | Ӷ | |
| D | ∽ | |
| E | ÷ | |
| F | Ⴆ | |

**Defined by 'Concept'**

| hex | Name |
| --- | --- |
| xx00 | ANCIENT GREEK HALF SIGN |
| xx01 | ANCIENT GREEK TWO-THIRDS SIGN |
| xx02 | ANCIENT GREEK THREE-QUARTERS SIGN |
| xx03 | ANCIENT GREEK YEAR SIGN |
| xx04 | ANCIENT GREEK TALENT SIGN |
| xx05 | ANCIENT GREEK DRACHMA SIGN |
| xx06 | ANCIENT GREEK OBOL SIGN |
| xx07 | ANCIENT GREEK TWO OBOLS SIGN |
| xx08 | ANCIENT GREEK THREE OBOLS SIGN |
| xx09 | ANCIENT GREEK FOUR OBOLS SIGN |
| xx0A | ANCIENT GREEK FIVE OBOLS SIGN |
| xx0B | ANCIENT GREEK METRETES SIGN |
| xx0C | ANCIENT GREEK KYATHOS BASE SIGN |
| xx0D | ANCIENT GREEK LITRA SIGN |
| xx0E | ANCIENT GREEK OUNKIA SIGN |
| xx0F | ANCIENT GREEK XESTES SIGN |
| xx10 | ANCIENT GREEK ARTABE SIGN |
| xx11 | ANCIENT GREEK AROURA SIGN |
| xx12 | ANCIENT GREEK GRAMMA SIGN |
| xx13 | ANCIENT GREEK TRYBLION BASE SIGN |

**Defined by 'Characters'**

| hex | Name |
| --- | --- |
| xx00 | ANCIENT GREEK HALF SIGN TYPE ONE |
| xx01 | ANCIENT GREEK HALF SIGN TYPE TWO |
| xx02 | ANCIENT GREEK TWO-THIRDS SIGN |
| xx03 | ANCIENT GREEK THREE-QUARTERS SIGN |
| xx04 | ANCIENT GREEK YEAR SIGN |
| xx05 | ANCIENT GREEK TALENT SIGN |
| xx06 | ANCIENT GREEK TWO OBOLS SIGN |
| xx07 | ANCIENT GREEK THREE OBOLS SIGN |
| xx08 | ANCIENT GREEK FOUR OBOLS SIGN |
| xx09 | ANCIENT GREEK FIVE OBOLS SIGN |
| xx0A | ANCIENT GREEK METRETES SIGN |
| xx0B | ANCIENT GREEK LITRA SIGN |
| xx0C | ANCIENT GREEK OUNKIA SIGN |
| xx0D | ANCIENT GREEK XESTES SIGN |
| xx0E | ANCIENT GREEK ARTABE SIGN |
| xx0F | ANCIENT GREEK AROURA SIGN |
| xx10 | ANCIENT GREEK GRAMMA SIGN |
| xx11 | ANCIENT GREEK TRYBLION BASE SIGN |