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The diagram illustrates the steps of the Euclidean algorithm for finding the GCD of 10 and 6. It consists of 16 small sub-diagrams arranged horizontally:

- $10 \div 6 = 1$ remainder 4.
- $6 \div 4 = 1$ remainder 2.
- $4 \div 2 = 2$ remainder 0.
- $2 \div 2 = 1$ remainder 0.
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The final result is shown as two equal segments, indicating that the GCD is 2.

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$\frac{1}{x} - \frac{1}{x^2} \Delta \triangleleft x + \frac{1}{x} = \frac{1}{x} + \frac{1}{x^2} \Delta x + \frac{1}{x^2} \Delta x + \frac{1}{x^2} \Delta x$

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$\frac{A}{B} \cdot \frac{C}{D} = \frac{AC}{BD}$

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$\triangleleft \overset{\circ}{A} \triangleleft \vdash \overset{\circ}{A}$ $\overset{\circ}{A} \triangleleft \triangleleft \overset{\circ}{A}$ $\vdash \overset{\circ}{A}$ $\vdash \overset{\circ}{A} \vdash \overset{\circ}{A} \triangleleft \overset{\circ}{A}$ $\triangleleft \overset{\circ}{A} \overset{\circ}{A} \triangleleft \overset{\circ}{A}$ $\overset{\circ}{A} \vdash \overset{\circ}{A}$ $\overset{\circ}{A} \triangleleft \overset{\circ}{A}$
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$$\begin{array}{l} \triangle A_1 A_2 \triangle A_3 \quad \nabla A_4 \triangle A_5 \quad \triangle A_6 \triangle A_7 \triangle A_8 \triangle A_9 \quad + \quad A_1 + \triangle A_2 \triangle A_3 \triangle A_4 \triangle A_5 \quad A_6 \triangle \\ \triangle A_7 \triangle A_8 + A_9 + A_1 \triangle A_2 + \end{array}$$
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$\frac{A}{B} \cdot \frac{C}{D} = \frac{A \cdot C}{B \cdot D}$

$\begin{array}{ccccccc} \triangle & \nabla & \triangle & \triangle & \triangle & \triangle & \triangle \\ + & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ + & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ + & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \\ + & \triangle & \triangle & \triangle & \triangle & \triangle & \triangle \end{array}$

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$\frac{A}{B} \times \frac{C}{D} = \frac{A \cdot C}{B \cdot D}$

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$\Delta A A \quad A + A \Delta A A A \quad A + A A A + \Delta A \quad + A \Delta A A \Delta A \quad A A + A$
 $A \Delta A \quad A \Delta A \Delta A A A \Delta A \quad + A \Delta A A A \Delta A \quad A A A A A +$

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$\triangle A_1 A_2 A_3 \triangle A_4 A_5 A_6 \triangle A_7 A_8 A_9 \triangle A_{10} A_{11} A_{12} \triangle A_{13} A_{14} A_{15} \triangle A_{16} A_{17} A_{18} \triangle A_{19} A_{20} A_{21} \triangle A_{22} A_{23} A_{24} \triangle A_{25} A_{26} A_{27} \triangle A_{28} A_{29} A_{30} \triangle A_{31} A_{32} A_{33} \triangle A_{34} A_{35} A_{36} \triangle A_{37} A_{38} A_{39} \triangle A_{40} A_{41} A_{42} \triangle A_{43} A_{44} A_{45} \triangle A_{46} A_{47} A_{48} \triangle A_{49} A_{50} A_{51} \triangle A_{52} A_{53} A_{54} \triangle A_{55} A_{56} A_{57} \triangle A_{58} A_{59} A_{60} \triangle A_{61} A_{62} A_{63} \triangle A_{64} A_{65} A_{66} \triangle A_{67} A_{68} A_{69} \triangle A_{70} A_{71} A_{72} \triangle A_{73} A_{74} A_{75} \triangle A_{76} A_{77} A_{78} \triangle A_{79} A_{80} A_{81} \triangle A_{82} A_{83} A_{84} \triangle A_{85} A_{86} A_{87} \triangle A_{88} A_{89} A_{90} \triangle A_{91} A_{92} A_{93} \triangle A_{94} A_{95} A_{96} \triangle A_{97} A_{98} A_{99} 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 𐐀𐐁𐐂𐐃𐐄𐐅𐐆𐐇𐐈𐐉𐐊𐐋𐐌𐐍𐐎𐐏𐐐𐐑𐐒𐐓𐐔𐐕𐐖𐐗𐐘𐐙𐐚𐐛𐐜𐐝𐐞𐐟𐐠𐐡𐐢𐐣𐐤𐐥𐐦𐐧𐐨𐐩𐐪𐐫𐐬𐐭𐐮𐐯𐐰𐐱𐐲𐐳𐐴𐐵𐐶𐐷𐐸𐐹𐐺𐐻𐐼𐐽𐐾𐐿
 𐑀𐑁𐑂𐑃𐑄𐑅𐑆𐑇𐑈𐑉𐑊𐑋𐑌𐑍𐑎𐑏𐑐𐑑𐑒𐑓𐑔𐑕𐑖𐑗𐑘𐑙𐑚𐑛𐑜𐑝𐑞𐑟𐑠𐑡𐑢𐑣𐑤𐑥𐑦𐑧𐑨𐑩𐑪𐑫𐑬𐑭𐑮𐑯𐑰𐑱𐑲𐑳𐑴𐑵𐑶𐑷𐑸𐑹𐑺𐑻𐑼𐑽𐑾𐑿
 𐒀𐒁𐒂𐒃𐒄𐒅𐒆𐒇𐒈𐒉𐒊𐒋𐒌𐒍𐒎𐒏𐒐𐒑𐒒𐒓𐒔𐒕𐒖𐒗𐒘𐒙𐒚𐒛𐒜𐒝𐒞𐒟𐒠𐒡𐒢𐒣𐒤𐒥𐒦𐒧𐒨𐒩𐒪𐒫𐒬𐒭𐒮𐒯𐒰𐒱𐒲𐒳𐒴𐒵𐒶𐒷𐒸𐒹𐒺𐒻𐒼𐒽𐒾𐒿
 𐓀𐓁𐓂𐓃𐓄𐓅𐓆𐓇𐓈𐓉𐓊𐓋𐓌𐓍𐓎𐓏𐓐𐓑𐓒𐓓𐓔𐓕𐓖𐓗𐓘𐓙𐓚𐓛𐓜𐓝𐓞𐓟𐓠𐓡𐓢𐓣𐓤𐓥𐓦𐓧𐓨𐓩𐓪𐓫𐓬𐓭𐓮𐓯𐓰𐓱𐓲𐓳𐓴𐓵𐓶𐓷𐓸𐓹𐓺𐓻𐓼𐓽𐓾𐓿
 𐔀𐔁𐔂𐔃𐔄𐔅𐔆𐔇𐔈𐔉𐔊𐔋𐔌𐔍𐔎𐔏𐔐𐔑𐔒𐔓𐔔𐔕𐔖𐔗𐔘𐔙𐔚𐔛𐔜𐔝𐔞𐔟𐔠𐔡𐔢𐔣𐔤𐔥𐔦𐔧𐔨𐔩𐔪𐔫𐔬𐔭𐔮𐔯𐔰𐔱𐔲𐔳𐔴𐔵𐔶𐔷𐔸𐔹𐔺𐔻𐔼𐔽𐔾𐔿
 𐕀𐕁𐕂𐕃𐕄𐕅𐕆𐕇𐕈𐕉𐕊𐕋𐕌𐕍𐕎𐕏𐕐𐕑𐕒𐕓𐕔𐕕𐕖𐕗𐕘𐕙𐕚𐕛𐕜𐕝𐕞𐕟𐕠𐕡𐕢𐕣𐕤𐕥𐕦𐕧𐕨𐕩𐕪𐕫𐕬𐕭𐕮𐕯𐕰𐕱𐕲𐕳𐕴𐕵𐕶𐕷𐕸𐕹𐕺𐕻𐕼𐕽𐕾𐕿
 𐖀𐖁𐖂𐖃𐖄𐖅𐖆𐖇𐖈𐖉𐖊𐖋𐖌𐖍𐖎𐖏𐖐𐖑𐖒𐖓𐖔𐖕𐖖𐖗𐖘𐖙𐖚𐖛𐖜𐖝𐖞𐖟𐖠𐖡𐖢𐖣𐖤𐖥𐖦𐖧𐖨𐖩𐖪𐖫𐖬𐖭𐖮𐖯𐖰𐖱𐖲𐖳𐖴𐖵𐖶𐖷𐖸𐖹𐖺𐖻𐖼𐖽𐖾𐖿
 𐗀𐗁𐗂𐗃𐗄𐗅𐗆𐗇𐗈𐗉𐗊𐗋𐗌𐗍𐗎𐗏𐗐𐗑𐗒𐗓𐗔𐗕𐗖𐗗𐗘𐗙𐗚𐗛𐗜𐗝𐗞𐗟𐗠𐗡𐗢𐗣𐗤𐗥𐗦𐗧𐗨𐗩𐗪𐗫𐗬𐗭𐗮𐗯𐗰𐗱𐗲𐗳𐗴𐗵𐗶𐗷𐗸𐗹𐗺𐗻𐗼𐗽𐗾𐗿
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 𐙀𐙁𐙂𐙃𐙄𐙅𐙆𐙇𐙈𐙉𐙊𐙋𐙌𐙍𐙎𐙏𐙐𐙑𐙒𐙓𐙔𐙕𐙖𐙗𐙘𐙙𐙚𐙛𐙜𐙝𐙞𐙟𐙠𐙡𐙢𐙣𐙤𐙥𐙦𐙧𐙨𐙩𐙪𐙫𐙬𐙭𐙮𐙯𐙰𐙱𐙲𐙳𐙴𐙵𐙶𐙷𐙸𐙹𐙺𐙻𐙼𐙽𐙾𐙿
 𐚀𐚁𐚂𐚃𐚄𐚅𐚆𐚇𐚈𐚉𐚊𐚋𐚌𐚍𐚎𐚏𐚐𐚑𐚒𐚓𐚔𐚕𐚖𐚗𐚘𐚙𐚚𐚛𐚜𐚝𐚞𐚟𐚠𐚡𐚢𐚣𐚤𐚥𐚦𐚧𐚨𐚩𐚪𐚫𐚬𐚭𐚮𐚯𐚰𐚱𐚲𐚳𐚴𐚵𐚶𐚷𐚸𐚹𐚺𐚻𐚼𐚽𐚾𐚿
 𐛀𐛁𐛂𐛃𐛄𐛅𐛆𐛇𐛈𐛉𐛊𐛋𐛌𐛍𐛎𐛏𐛐𐛑𐛒𐛓𐛔𐛕𐛖𐛗𐛘𐛙𐛚𐛛𐛜𐛝𐛞𐛟𐛠𐛡𐛢𐛣𐛤𐛥𐛦𐛧𐛨𐛩𐛪𐛫𐛬𐛭𐛮𐛯𐛰𐛱𐛲𐛳𐛴𐛵𐛶𐛷𐛸𐛹𐛺𐛻𐛼𐛽𐛾𐛿
 𐜀𐜁𐜂𐜃𐜄𐜅𐜆𐜇𐜈𐜉𐜊𐜋𐜌𐜍𐜎𐜏𐜐𐜑𐜒𐜓𐜔𐜕𐜖𐜗𐜘𐜙𐜚𐜛𐜜𐜝𐜞𐜟𐜠𐜡𐜢𐜣𐜤𐜥𐜦𐜧𐜨𐜩𐜪𐜫𐜬𐜭𐜮𐜯𐜰𐜱𐜲𐜳𐜴𐜵𐜶𐜷𐜸𐜹𐜺𐜻𐜼𐜽𐜾𐜿
 𐝀𐝁𐝂𐝃𐝄𐝅𐝆𐝇𐝈𐝉𐝊𐝋𐝌𐝍𐝎𐝏𐝐𐝑𐝒𐝓𐝔𐝕𐝖𐝗𐝘𐝙𐝚𐝛𐝜𐝝𐝞𐝟𐝠𐝡𐝢𐝣𐝤𐝥𐝦𐝧𐝨𐝩𐝪𐝫𐝬𐝭𐝮𐝯𐝰𐝱𐝲𐝳𐝴𐝵𐝶𐝷𐝸𐝹𐝺𐝻𐝼𐝽𐝾𐝿
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The diagrams show the following steps:

- $18 \div 12 = 1$ remainder 6
- $12 \div 6 = 2$ remainder 0
- $6 \div 6 = 1$ remainder 0

The final result is $\text{GCD}(12, 18) = 6$.

[illegible][illegible]

The diagrams show the following steps:

- $18 \div 12 = 1$ remainder 6
- $12 \div 6 = 2$ remainder 0
- $6 \div 6 = 1$ remainder 0

The final GCD is 6.

The diagrams illustrate the steps of the Euclidean algorithm for finding the GCD of 12 and 18. The sequence is as follows:

- Initial state: $a = 18$, $b = 12$, $c = 0$. A circle is drawn around a .
- Step 1: $a = 12$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 2: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 3: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 4: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 5: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 6: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 7: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 8: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 9: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 10: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 11: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 12: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 13: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 14: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .
- Step 15: $a = 6$, $b = 6$, $c = 0$. A circle is drawn around a .








































The sequence of diagrams illustrates the Euclidean algorithm for finding the GCD of 12 and 18. It starts with a large rectangle (18x12) and shows the process of dividing it into smaller squares. The first step shows a 12x12 square and a 6x12 rectangle. The next steps show the 6x12 rectangle being divided into two 6x6 squares. The final step shows the 6x6 square being divided into four 3x3 squares, indicating that the GCD is 6.

$\frac{4}{A} \Delta \frac{A}{B} + \frac{A}{C} \frac{4}{D} \Delta \frac{A}{E} \quad \Delta \frac{A}{F} \Delta \quad \frac{A}{G} \Delta \frac{A}{H} \Delta \quad \frac{A}{I} \frac{7}{J} \frac{A}{K} \frac{A}{L} + \frac{A}{M} \quad \frac{A}{N} \frac{A}{O} \Delta$

[illegible]



[illegible][illegible][illegible][illegible]

[illegible]

[illegible]

[illegible]

十十夫 丑夫△卅夫 夫夫△夫 十夫 十夫夫夫△夫△ 夫△夫 丑夫 十十夫
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$\frac{A}{B} \cdot \frac{C}{D} = \frac{AC}{BD}$

[illegible]

