

[illegible]

[illegible][illegible]



[illegible]

[illegible][illegible][illegible]

$\vdash A \triangle \neg A \triangle \vdash A \triangle \neg A \triangle \vdash A \triangle \neg A \triangle \vdash A \triangle \neg A \triangle \vdash A \triangle \neg A \triangle \vdash A \triangle \neg A \triangle$
 $\vdash A \neg A \neg A$

[illegible]

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
















































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

$\triangle A_1 A_2 A_3 \triangle A_4 A_5 A_6 + A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6$
 $\triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6 \triangle A_1 A_2 A_3 A_4 A_5 A_6$























[illegible][illegible]






A sequence of 15 diagrams illustrating the construction of a triangle with a vertical line through its center. The steps are as follows:


- Diagram 1: A triangle with a vertical line passing through its center.
- Diagram 2: A triangle with a vertical line passing through its center.
- Diagram 3: A triangle with a vertical line passing through its center.
- Diagram 4: A triangle with a vertical line passing through its center.
- Diagram 5: A triangle with a vertical line passing through its center.
- Diagram 6: A triangle with a vertical line passing through its center.
- Diagram 7: A triangle with a vertical line passing through its center.
- Diagram 8: A triangle with a vertical line passing through its center.
- Diagram 9: A triangle with a vertical line passing through its center.
- Diagram 10: A triangle with a vertical line passing through its center.
- Diagram 11: A triangle with a vertical line passing through its center.
- Diagram 12: A triangle with a vertical line passing through its center.
- Diagram 13: A triangle with a vertical line passing through its center.
- Diagram 14: A triangle with a vertical line passing through its center.
- Diagram 15: A triangle with a vertical line passing through its center.

The sequence of diagrams illustrates the Euclidean algorithm for finding the GCD of 12 and 18. It starts with two vertical lines representing 12 and 18. The first diagram shows 18 divided by 12, with a remainder of 6. The second diagram shows the remainder 6 being used to divide the previous remainder 12. The third diagram shows the remainder 6 being used to divide the previous remainder 18. The fourth diagram shows the remainder 6 being used to divide the previous remainder 12. The fifth diagram shows the remainder 6 being used to divide the previous remainder 18. The sixth diagram shows the remainder 6 being used to divide the previous remainder 12. The seventh diagram shows the remainder 6 being used to divide the previous remainder 18. The eighth diagram shows the remainder 6 being used to divide the previous remainder 12. The ninth diagram shows the remainder 6 being used to divide the previous remainder 18. The tenth diagram shows the remainder 6 being used to divide the previous remainder 12. The eleventh diagram shows the remainder 6 being used to divide the previous remainder 18. The twelfth diagram shows the remainder 6 being used to divide the previous remainder 12. The thirteenth diagram shows the remainder 6 being used to divide the previous remainder 18. The fourteenth diagram shows the remainder 6 being used to divide the previous remainder 12. The fifteenth diagram shows the remainder 6 being used to divide the previous remainder 18. The sixteenth diagram shows the remainder 6 being used to divide the previous remainder 12. The seventeenth diagram shows the remainder 6 being used to divide the previous remainder 18. The eighteenth diagram shows the remainder 6 being used to divide the previous remainder 12.





[illegible][illegible]

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

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

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

$\frac{1}{2} \triangle \frac{1}{2} + \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \nabla \quad \frac{1}{2} \nabla \frac{1}{2} \triangle \frac{1}{2} \quad \frac{1}{2} + \frac{1}{2} \triangle + \frac{1}{2} \frac{1}{2} \quad \frac{1}{2} + \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \nabla \frac{1}{2}$
 $\frac{1}{2} \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} + \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \nabla \frac{1}{2} \triangle \frac{1}{2} + \frac{1}{2} \triangle \frac{1}{2} \quad \frac{1}{2} \frac{1}{2} \triangle \frac{1}{2}$

[illegible]

$\begin{array}{cccccccc} \triangle & \triangle & \triangle & + & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & - & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \times & \triangle & \triangle & \triangle & \triangle \\ \triangle & \triangle & \triangle & \div & \triangle & \triangle & \triangle & \triangle \end{array}$

[illegible]

$\triangle A_1 A_2 A_3 \sim \triangle A_4 A_5 A_6 \sim \triangle A_7 A_8 A_9 \sim \triangle A_{10} A_{11} A_{12}$
 $\triangle A_1 A_4 A_7 \sim \triangle A_2 A_5 A_8 \sim \triangle A_3 A_6 A_9 \sim \triangle A_4 A_7 A_{10}$
 $\triangle A_5 A_8 A_{11} \sim \triangle A_6 A_9 A_{12} \sim \triangle A_7 A_{10} A_{11} \sim \triangle A_8 A_{11} A_{12}$

















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

$\triangle_1 A_1 \quad A_1 + A_1 \triangle A_1 \quad A_1 \triangle A_1 \triangle_1 \quad A_1 \triangle_1 + A_1 + A_1 \triangle_1 \triangle_1 A_1$
 $\triangle_1 A_1 \triangle_1 A_1 \triangle_1 \triangle_1 A_1 \triangle_1 + A_1 \quad A_1 \triangle_1 \quad A_1 A_1 + A_1 \triangle_1 A_1 \quad A_1 \triangle_1 A_1 \triangle_1 A_1 \triangle_1 A_1$
 $\triangle_1 A_1 \triangle_1 A_1 \quad A_1 \triangle_1 A_1 \triangle_1$

[illegible][illegible]

[illegible]

[illegible][illegible]

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

$$\begin{array}{l} \vdash A \rightarrow B \Delta A \rightarrow C \vdash A \rightarrow B \vdash A \rightarrow C \\ \vdash A \rightarrow B \Delta A \rightarrow C \vdash A \rightarrow B \vdash A \rightarrow C \end{array}$$

[illegible]

$\vdash A \triangle A$ $\vdash A \triangle A$ $A \triangleright A \triangle A$ $A \triangle \vdash A \vdash A \triangleright A$ $\vdash A \triangleright \vdash A$ $\vdash A$
 $\vdash A \vdash A$ $\vdash A \triangle A$
