



Lab Notebook

Email: _____

Phone Number: _____

Address: _____

Note: Lab reports should be written using 1-inch margins and 12 pt., Times New Roman font.

First and Last Name | Student ID

Month/Day/Year

Course | Section

Instructor's Name

Lab Report Title

PURPOSE

This section pertains to the main question that you are aiming to answer. This should be stated in the form of a question. (Ex: Which ball will bounce higher: rubber or plastic?)

INTRODUCTION

Provide background information about the experiment as well as any research you have done on this topic. This section should be two paragraphs in length, minimum.

HYPOTHESIS

The hypothesis should be a single statement explaining exactly what you are trying to prove. Use the following format: If... then... because...

MATERIALS

In paragraph form, name all of the materials and equipment used in the experiment. Be sure to include specific measurements, amounts, and concentrations of chemicals used.

METHODS

This section includes step-by-step instructions, in order, explaining the procedures used to complete the experiment. These instructions should be thorough so that someone with less expertise could replicate.

RESULTS

All data must be collected and organized in logical order. Results should be illustrated in charts, tables, graphs, and/or diagrams. All data must include a title. Graphs must include a independent variable (x-axis) and dependent variable (y-axis) label with units.

DISCUSSION & CONCLUSION

The discussion is the most important part of the lab report. This is where you show that you understand the experiment beyond completion. Give detailed accounts of what happened in each step of the experiment and elaborate thoroughly on your results and observations. Analyze and interpret why these results were obtained. Explain the significance of these results. Restate your original hypothesis and explain whether or not the experiment succeeded. If the hypothesis was incorrect, why? Explain any errors in your results and provide an Error Analysis explaining any important factors that may have affected your results.

REFERENCES

List your references such as your teacher's notes, websites utilized, textbooks, etc.

Table of Contents

No.	Subject/Notes	No.	Subject/Notes

Common Unit Conversions

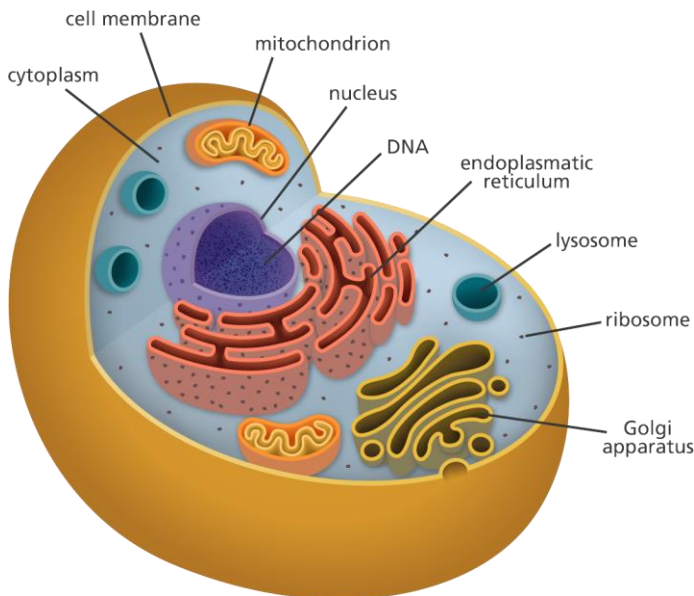
Length	Mass (Weight)
1 inch = 2.540 centimeters 1 millimeter = 0.03937 inches 1 foot = 30.4878 centimeters 1 centimeters = 0.3937 inches 1 yard = 0.9144028 meters 1 meter = 3.281 feet 1 mile = 1.6093419 kilometer 1 kilometer = 0.621372 miles	1 grain = 0.00208 ounces 1 ounce = 28.3495 grams 1 gram = 0.03527396 ounces 1 pound = 16 oz = 0.4535924 kilograms 1 kilogram = 2.2046223 pounds 1 short ton = 0.892857 metric ton 1 metric ton = 1.1200 short tons 1 long ton = 1.01605 metric tons
Volume	Area
1 teaspoon = 5 milliliters 1 milliliter = 0.0338147 fluid ounces 1 tablespoon = 15 milliliters 1 liter = 2.11342 pints = 1000 cubic centimeters 1 fluid ounce = 30 milliliters 1 liter = 1.05671 quarts = 0.264178 gallons 1 gallon = 3.785332 liters = 231 cubic inches 1 cup = 0.23658 liters 1 pint = 0.473167 liters 1 cubic meter = 35.3144 cubic feet = 1.30794 cubic yards 1 cubic foot = 0.0283170 cubic meters 1 cubic yard = 0.764559 cubic meters	1 sq. inch = 6.4516 sq. centimeters 1 sq. centimeter = 0.1550 sq. inches 1 sq. foot = 0.0929 sq. meters 1 sq. meter = 1.195986 sq. yards 1 sq. yard = 0.83613 sq. meters 1 sq. kilometer = 0.386101 sq. miles 1 sq. mile = 2.589999 sq. kilometers 1 hectare = 2.471044 acres 1 acre = 0.404687 hectares
	Temperature
	Fahrenheit: Subtract 32, then multiply by 5/9ths Celsius Celsius: Multiply by 9/5ths, then add 32 Fahrenheit

Periodic Table of Elements

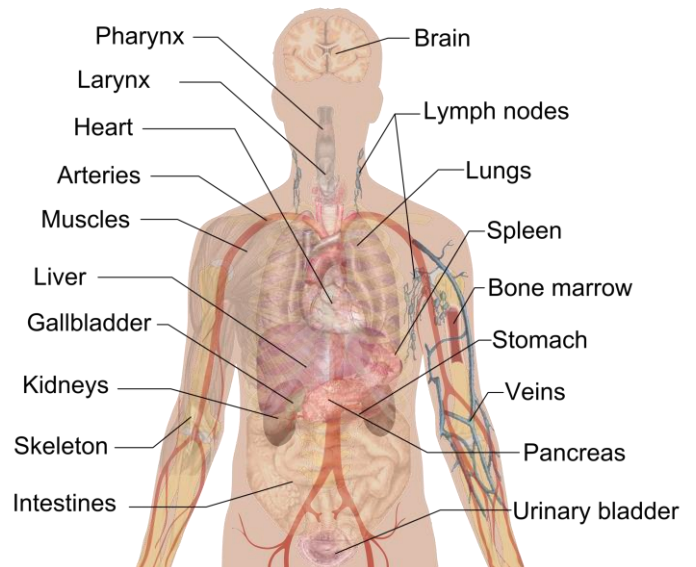
1 H Hydrogen 1.008																	18 He Helium 4.003
3 Li Lithium 6.941	4 Be Beryllium 9.012											5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305											13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.974	16 S Sulfur 32.066	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.867	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.631	33 As Arsenic 74.922	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 84.798
37 Rb Rubidium 84.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 106.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.711	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.29
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanides	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [208.982]	85 At Astatine 209.987	86 Rn Radon 222.018
87 Fr Francium 223.020	88 Ra Radium 226.025	89-103 Actinides	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [278]	110 Ds Darmstadtium [281]	111 Rg Roentgenium [280]	112 Cn Copernicium [285]	113 Nh Nihonium [286]	114 Fl Flerovium [289]	115 Mc Moscovium [289]	116 Lv Livermorium [293]	117 Ts Tennessine [294]	118 Og Oganesson [294]

57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.243	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]

Anatomy



Internal organs



No. _____ Title: _____

Name: _____ Date: _____

Partner(s): _____

Purpose: _____

Hypothesis: _____

Materials: _____

Notes:

Graph Title: _____

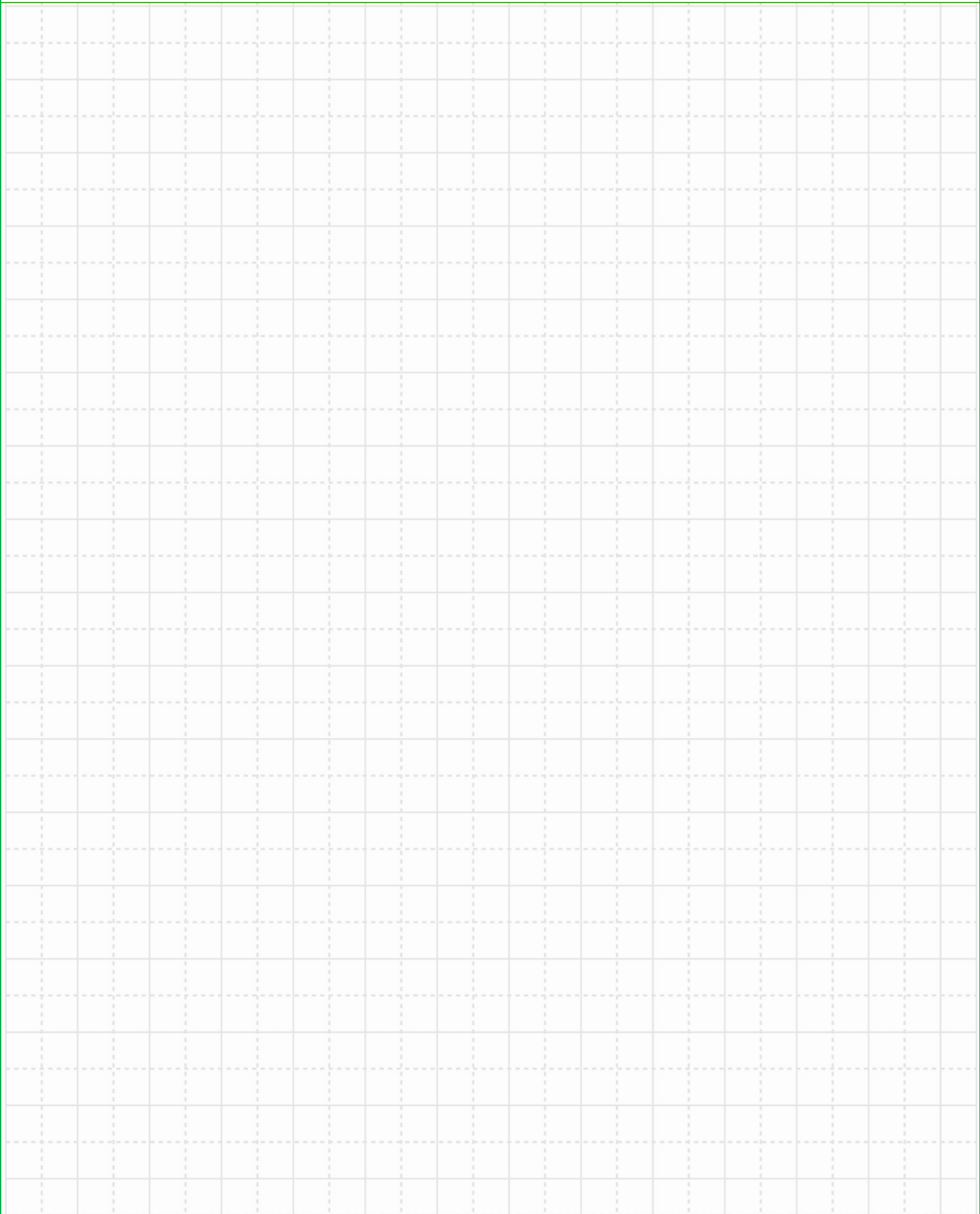
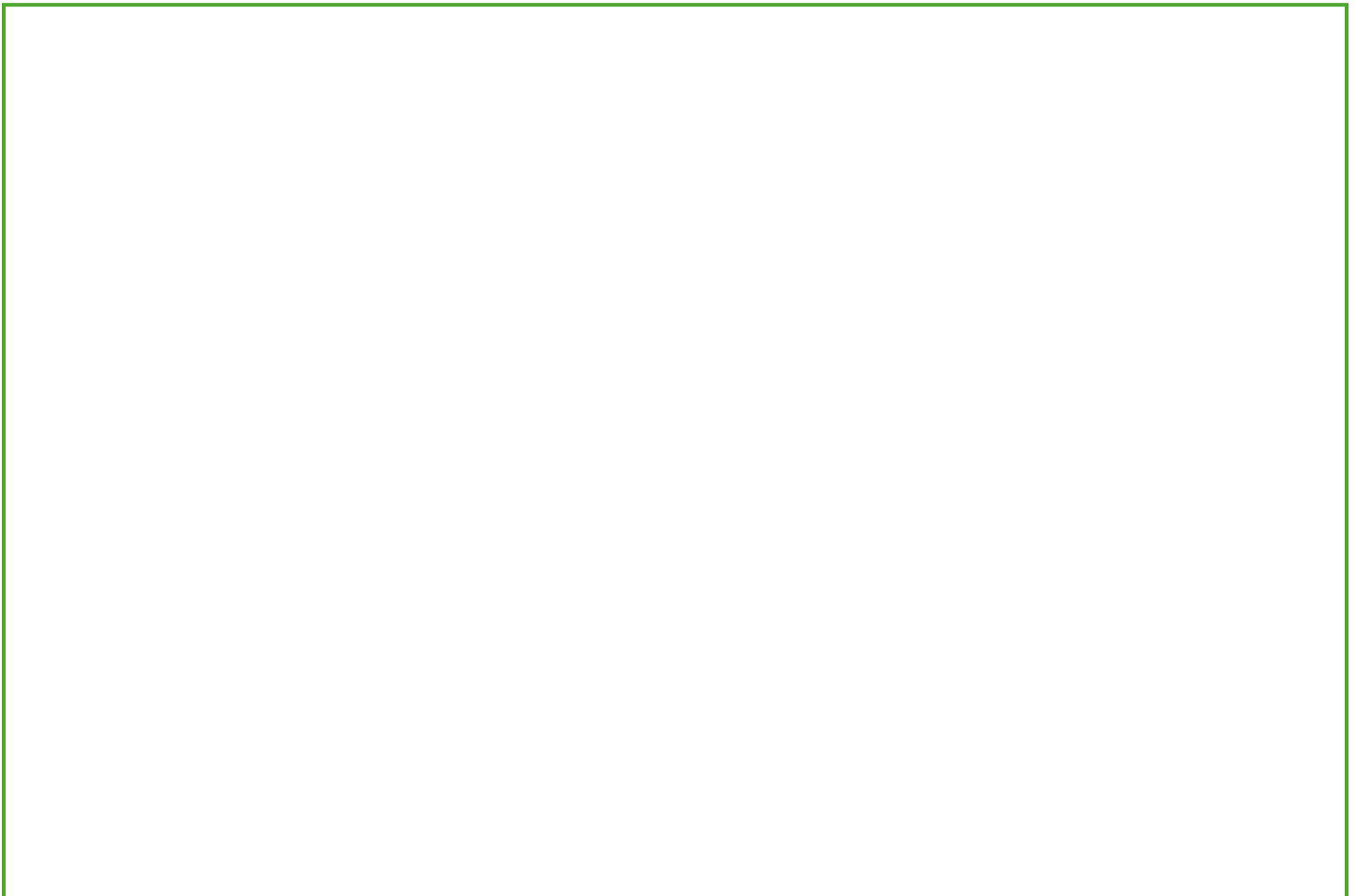


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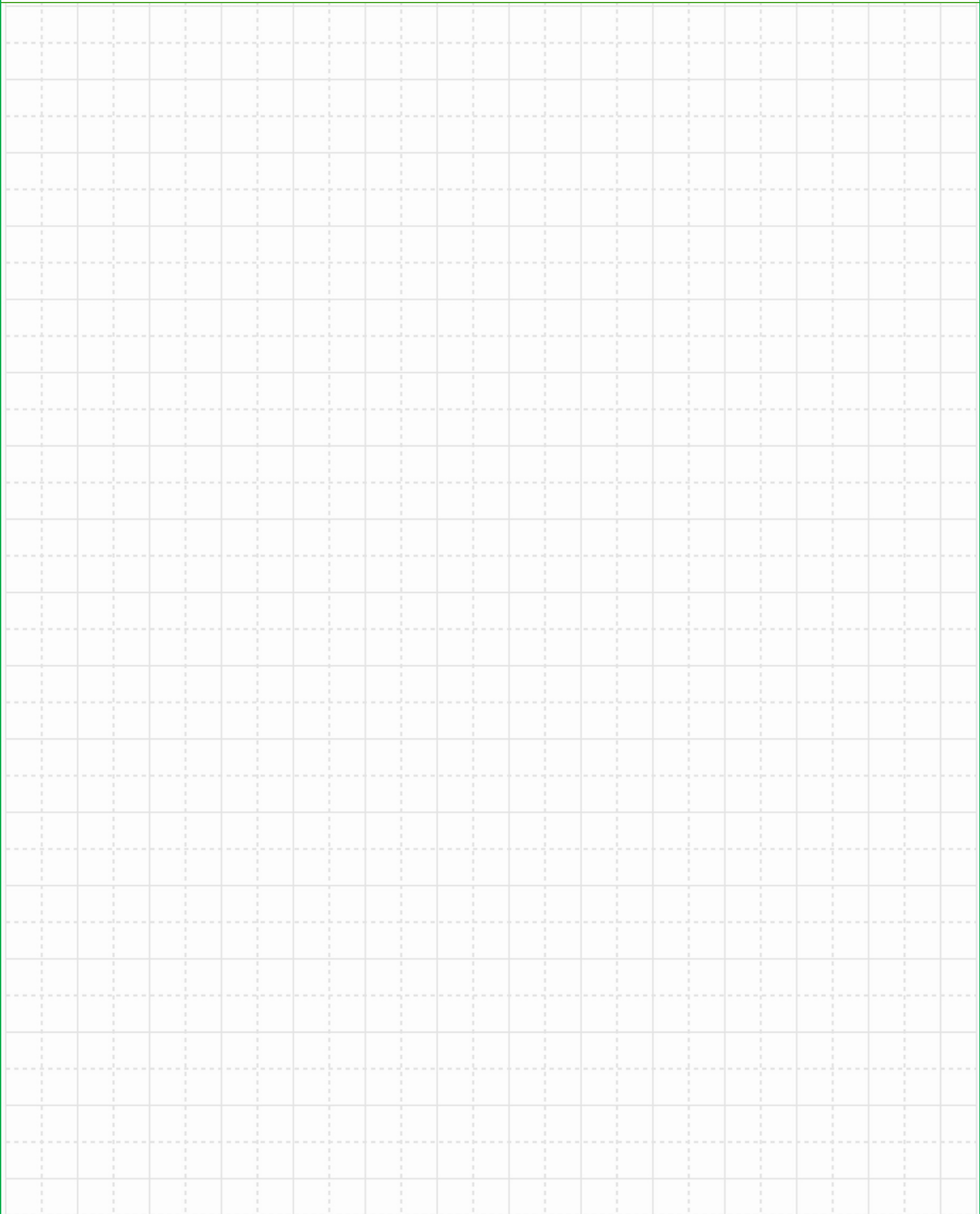
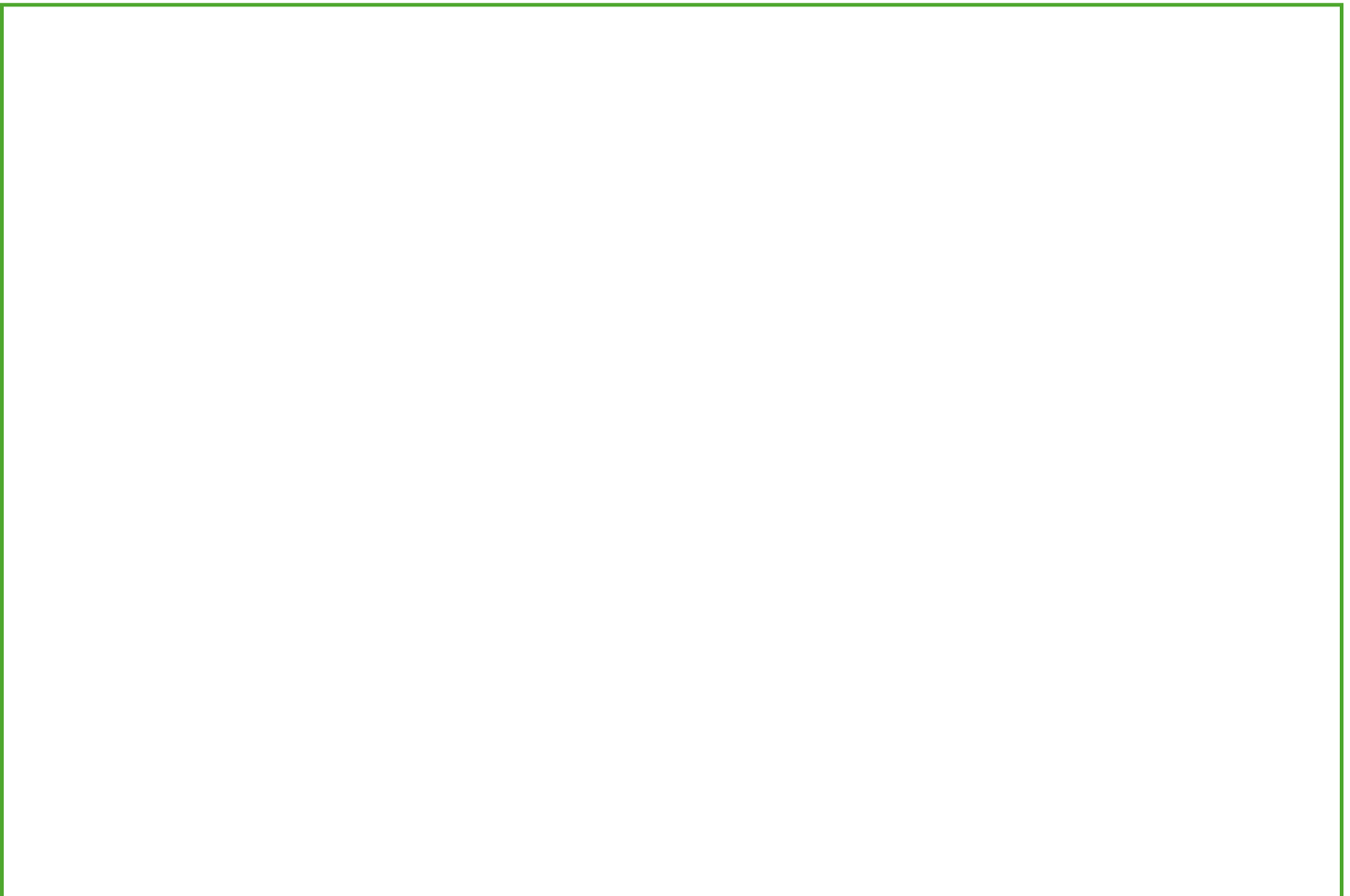


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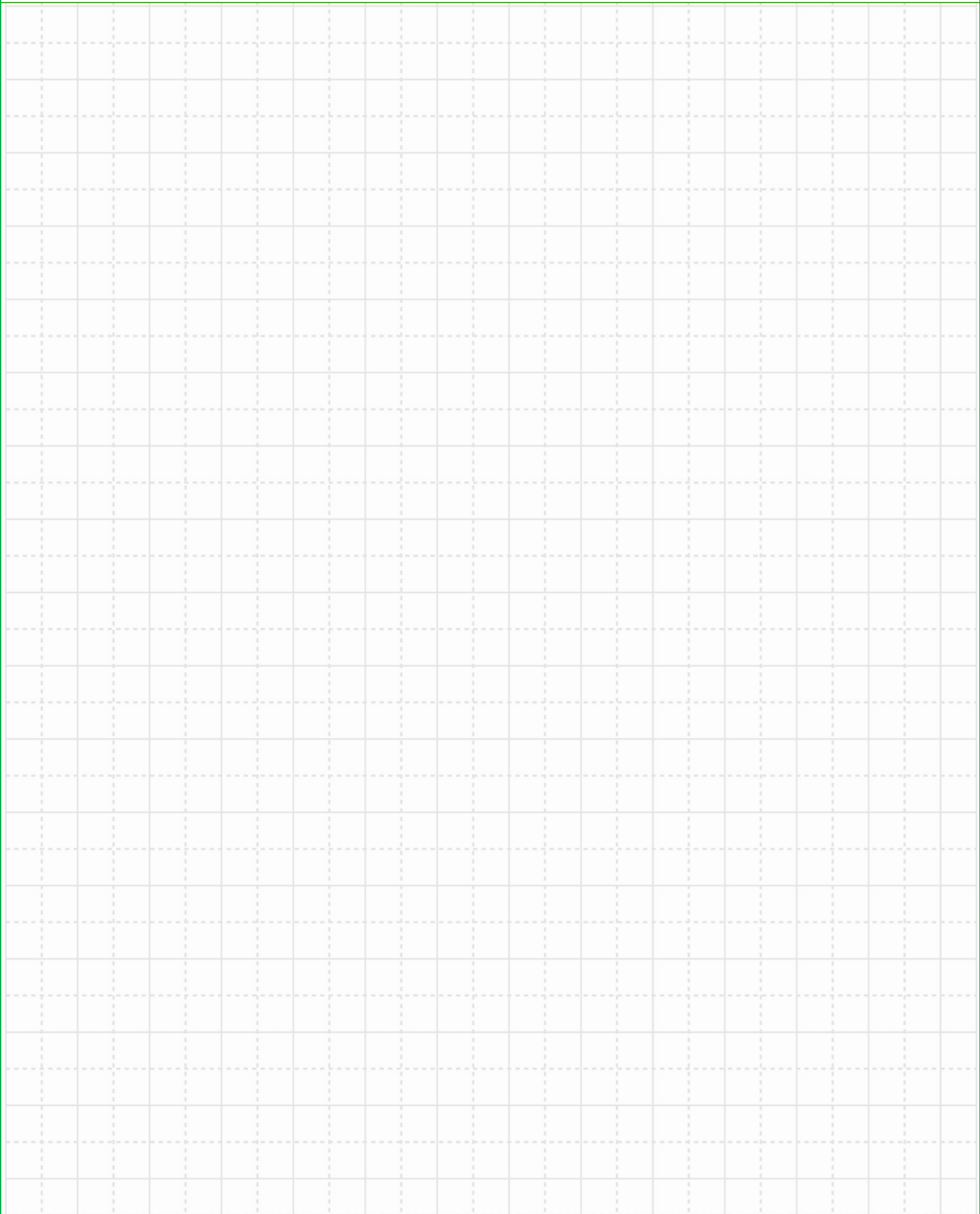
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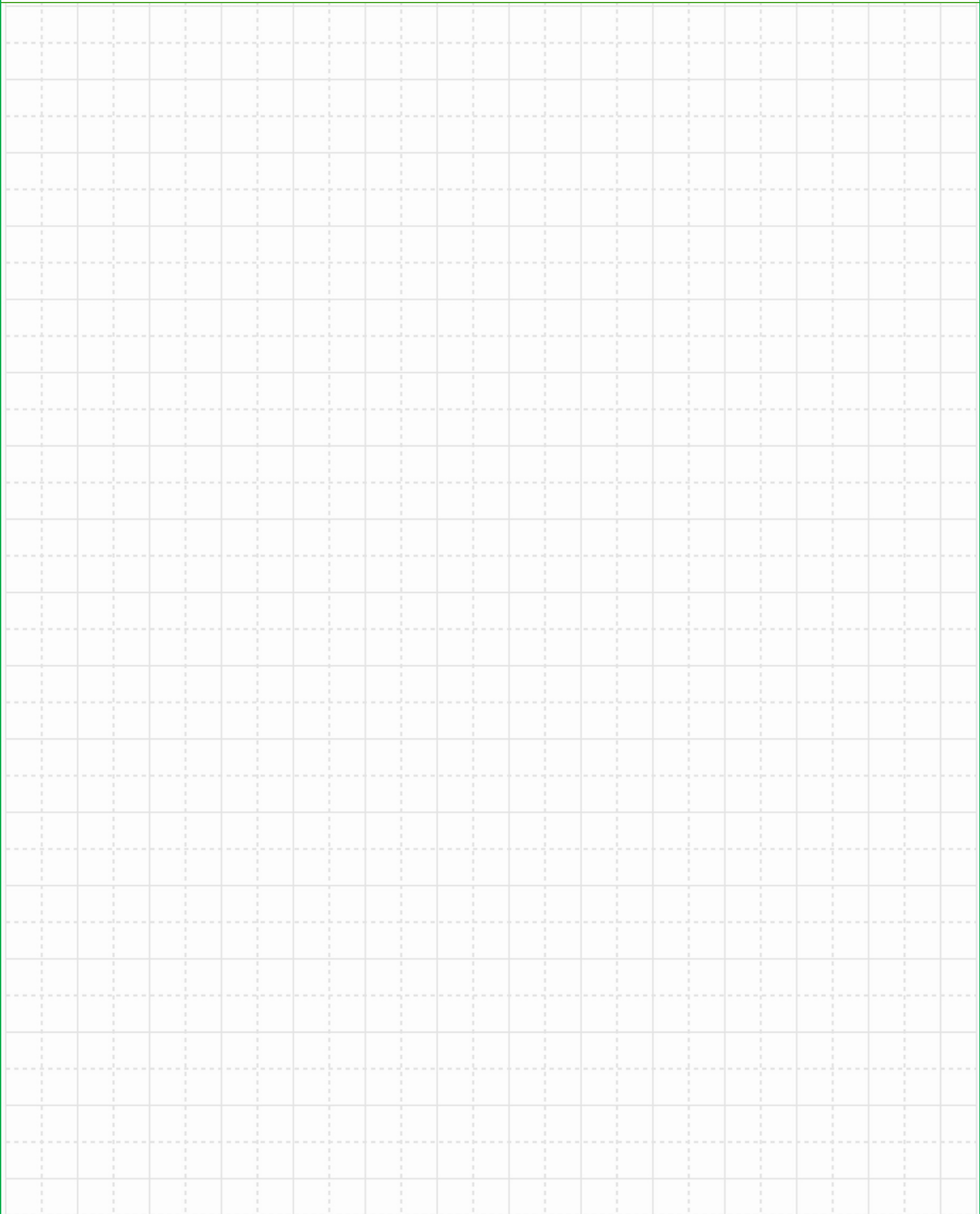
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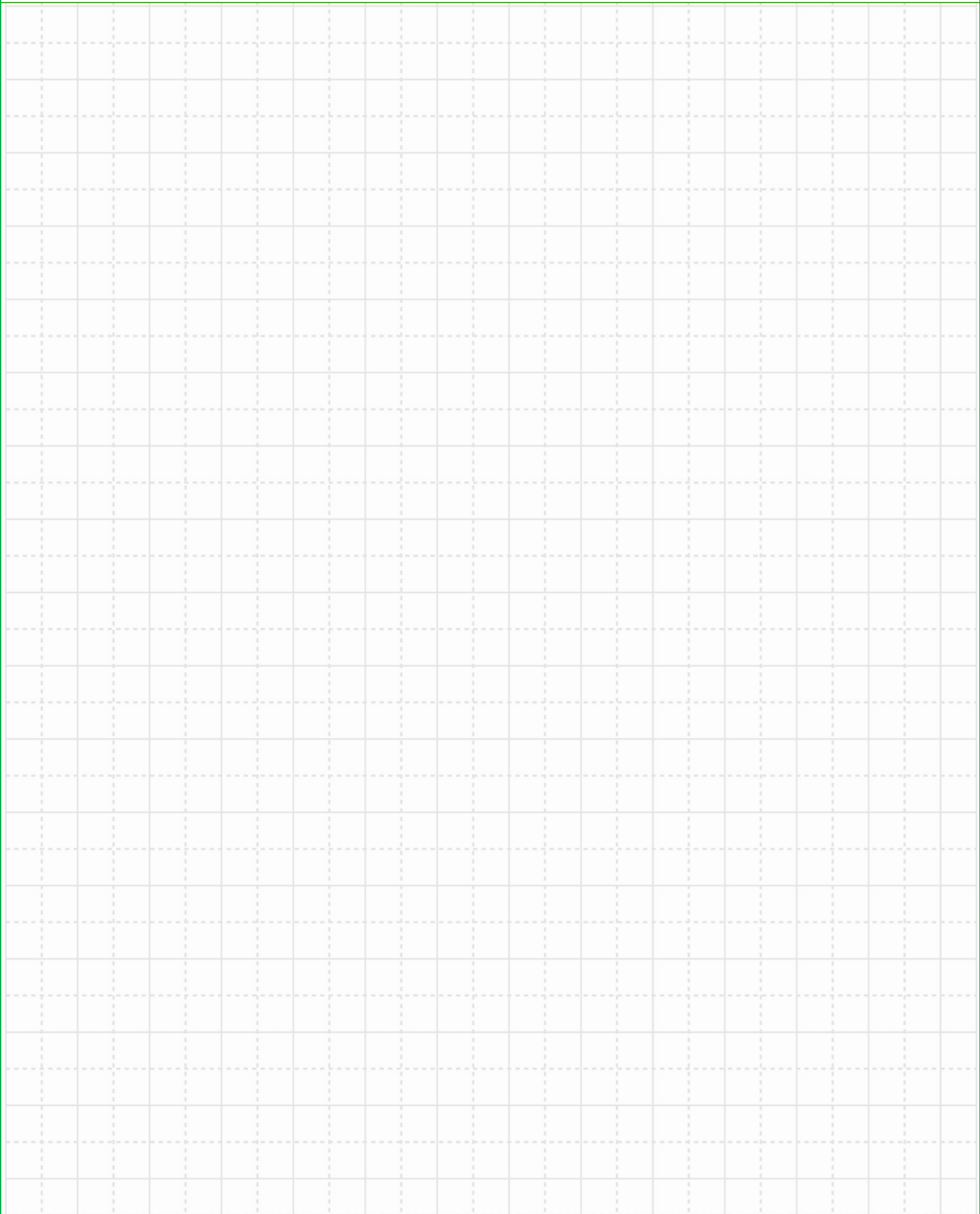
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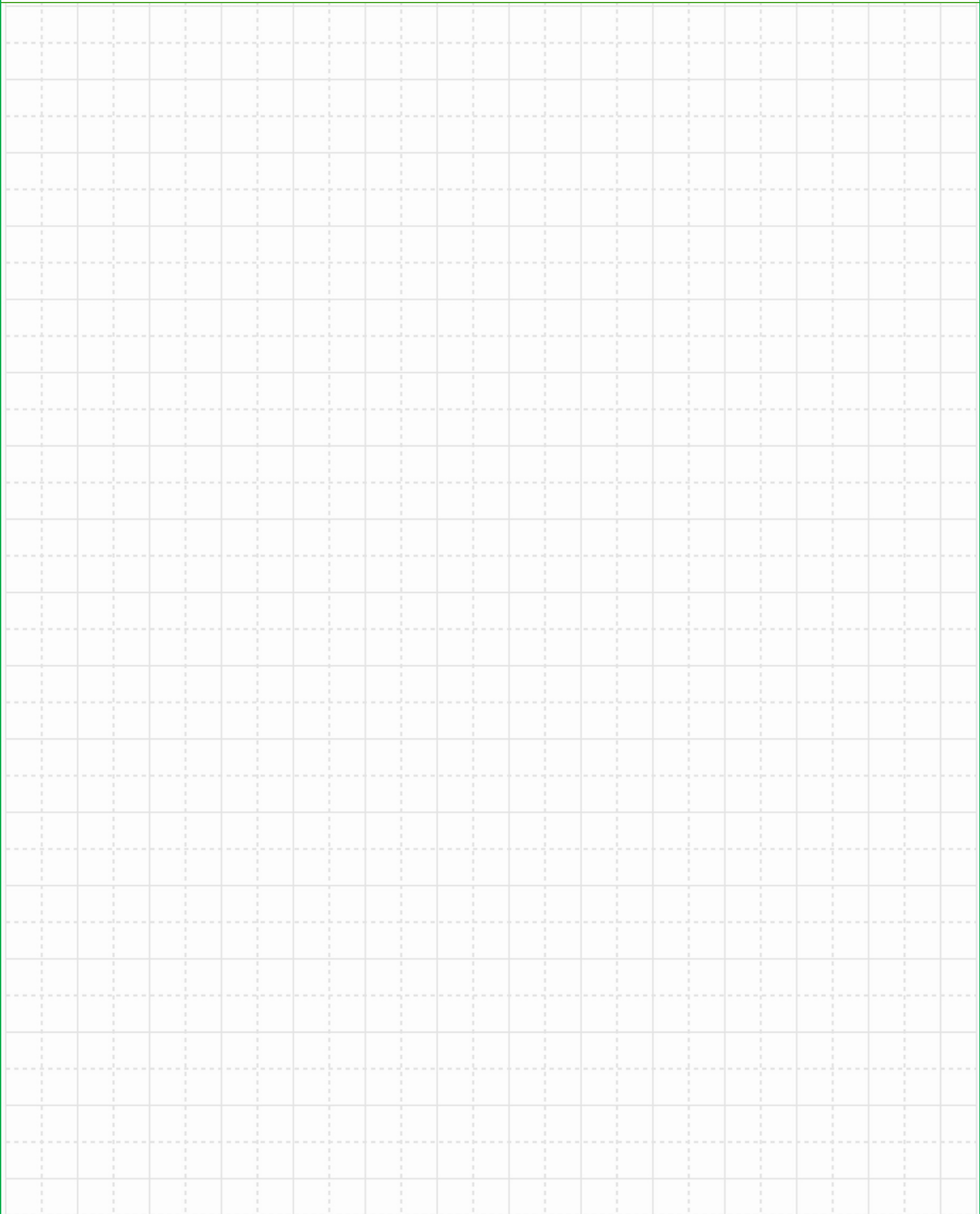
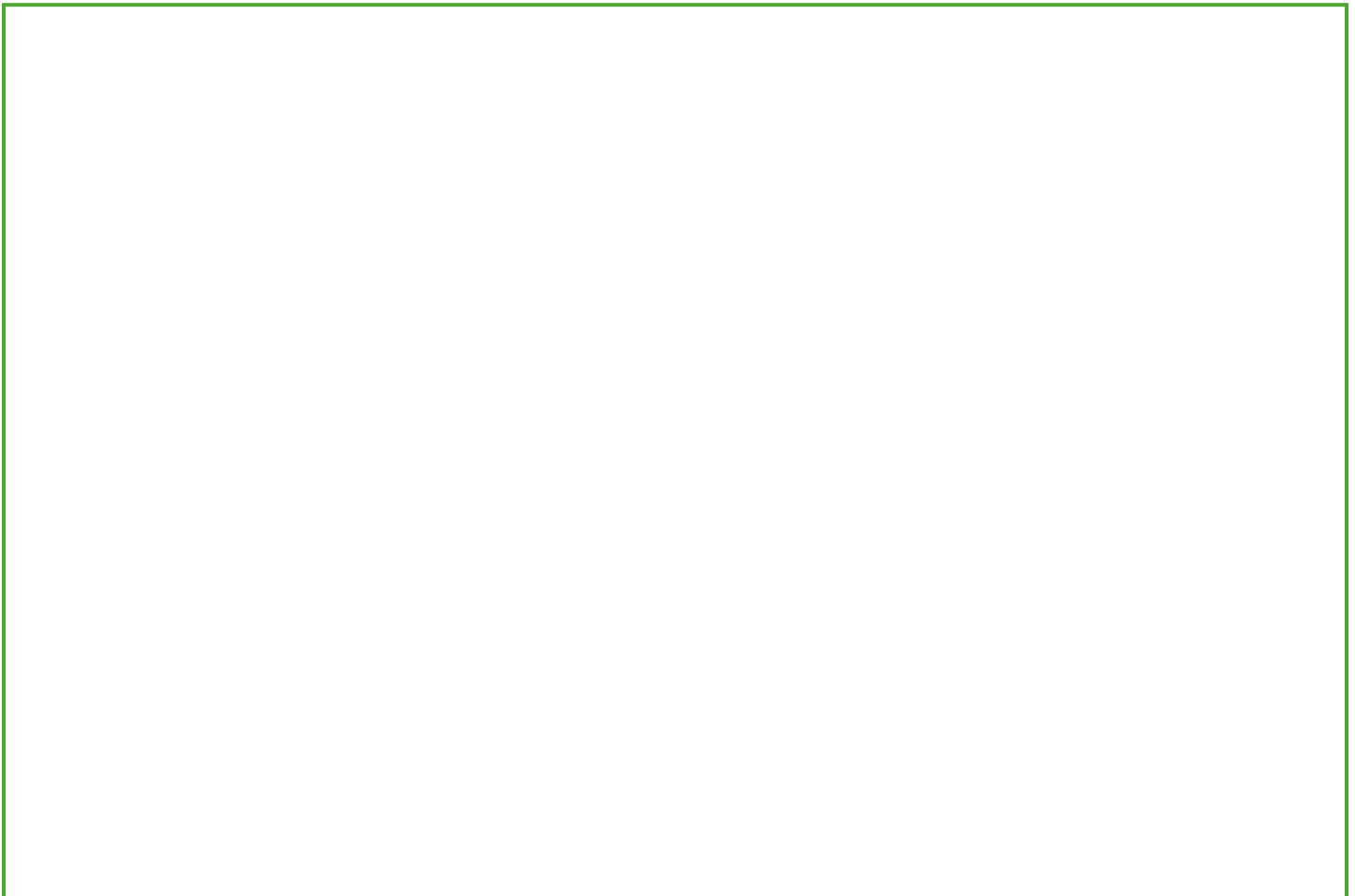


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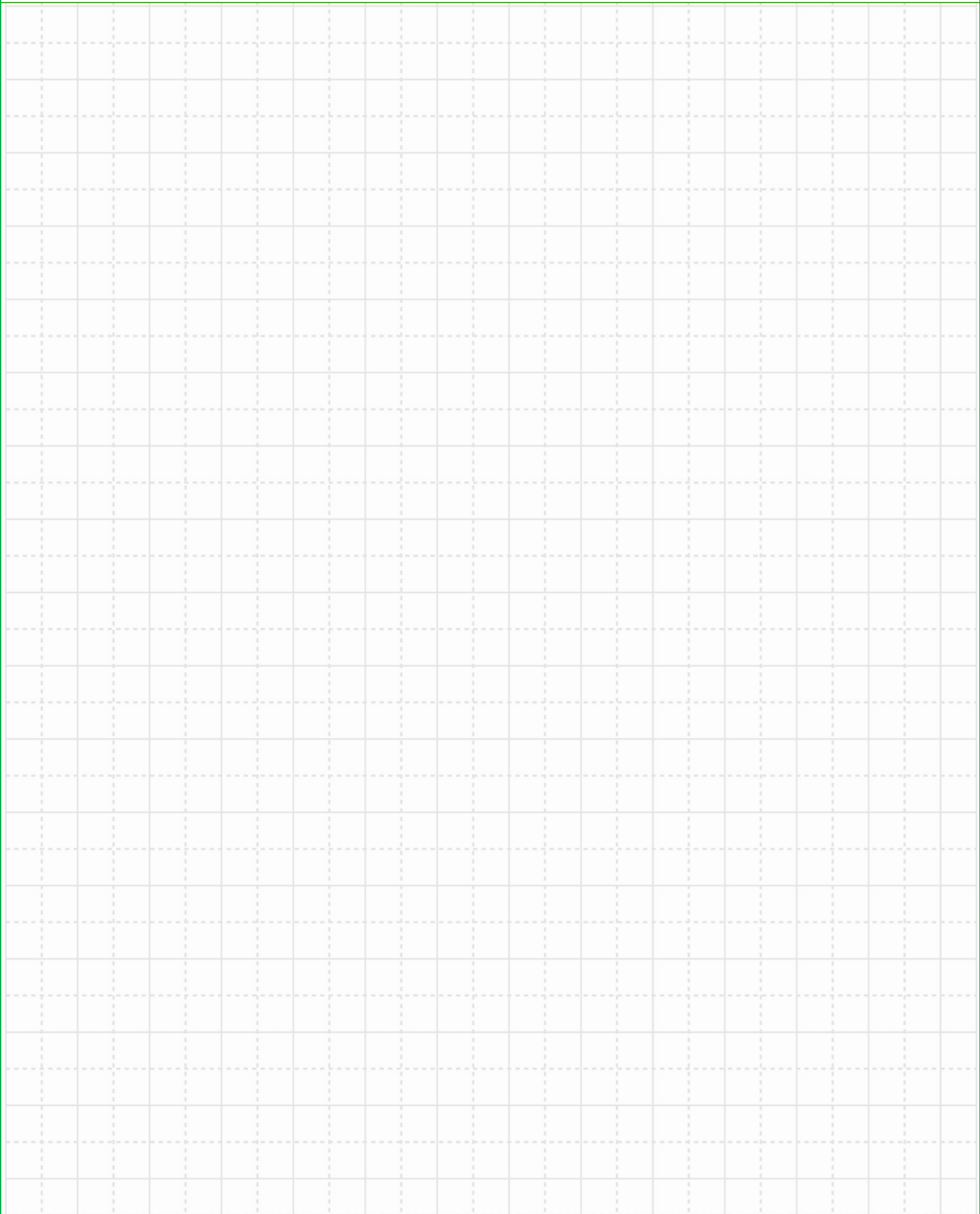
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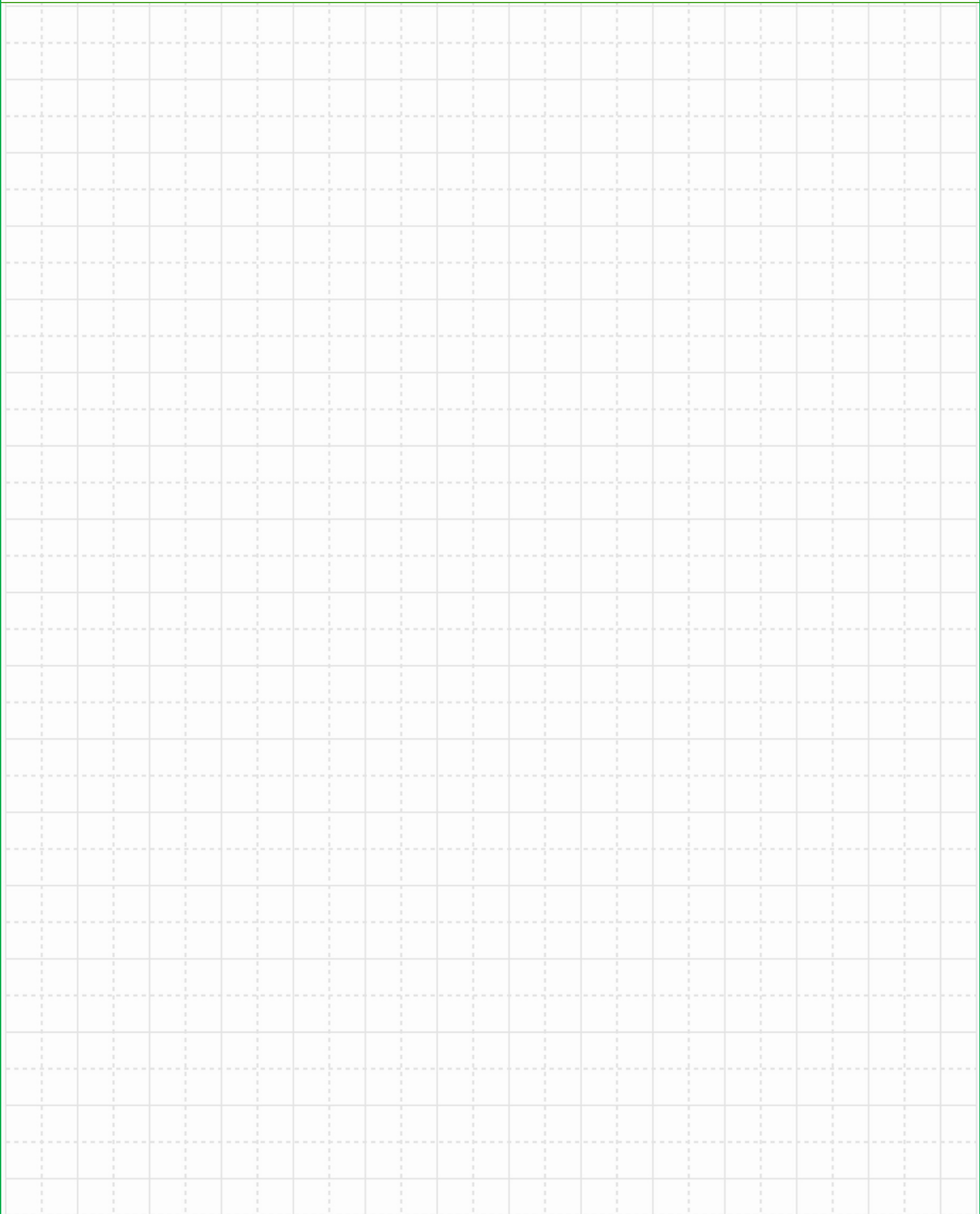
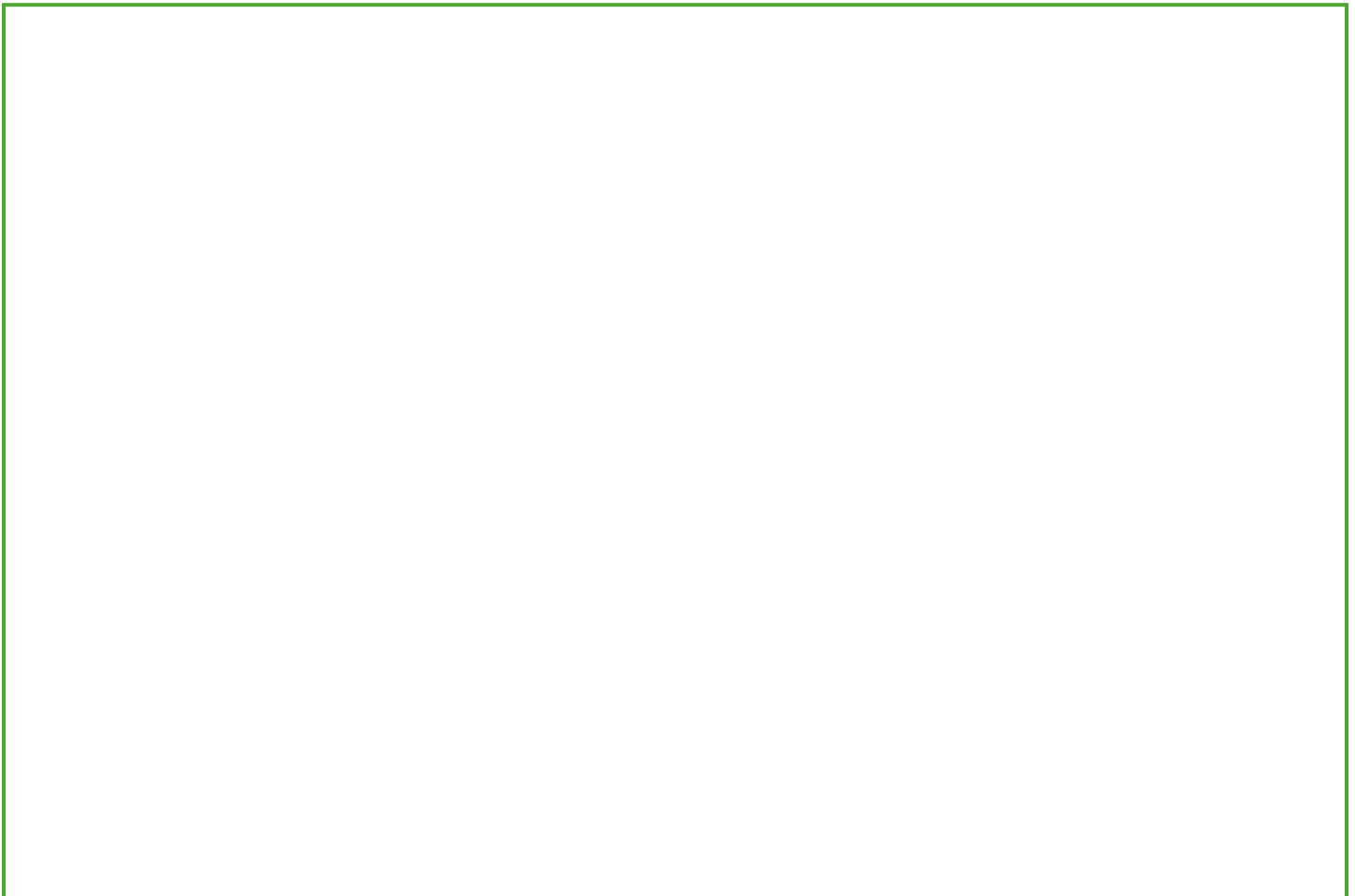


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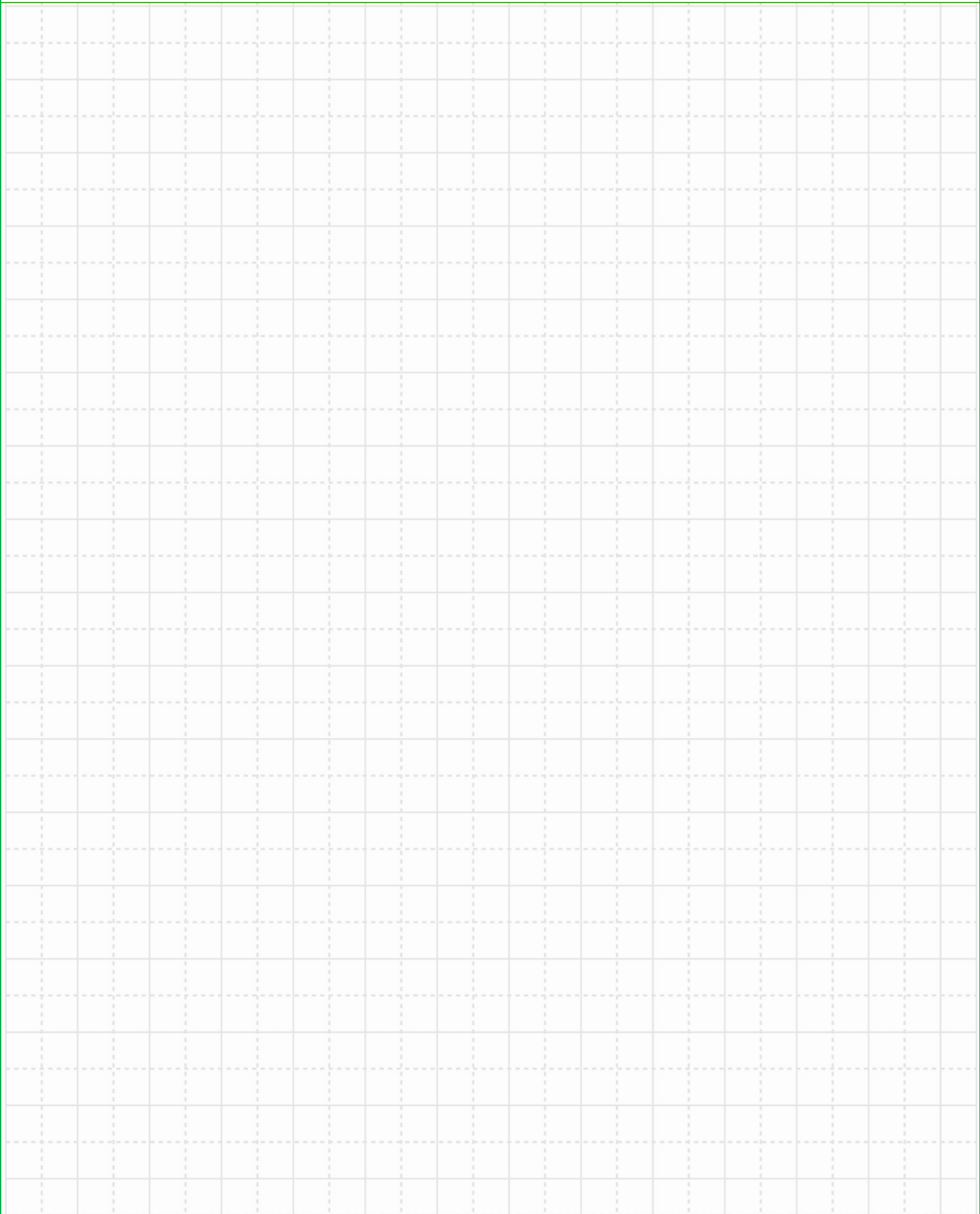
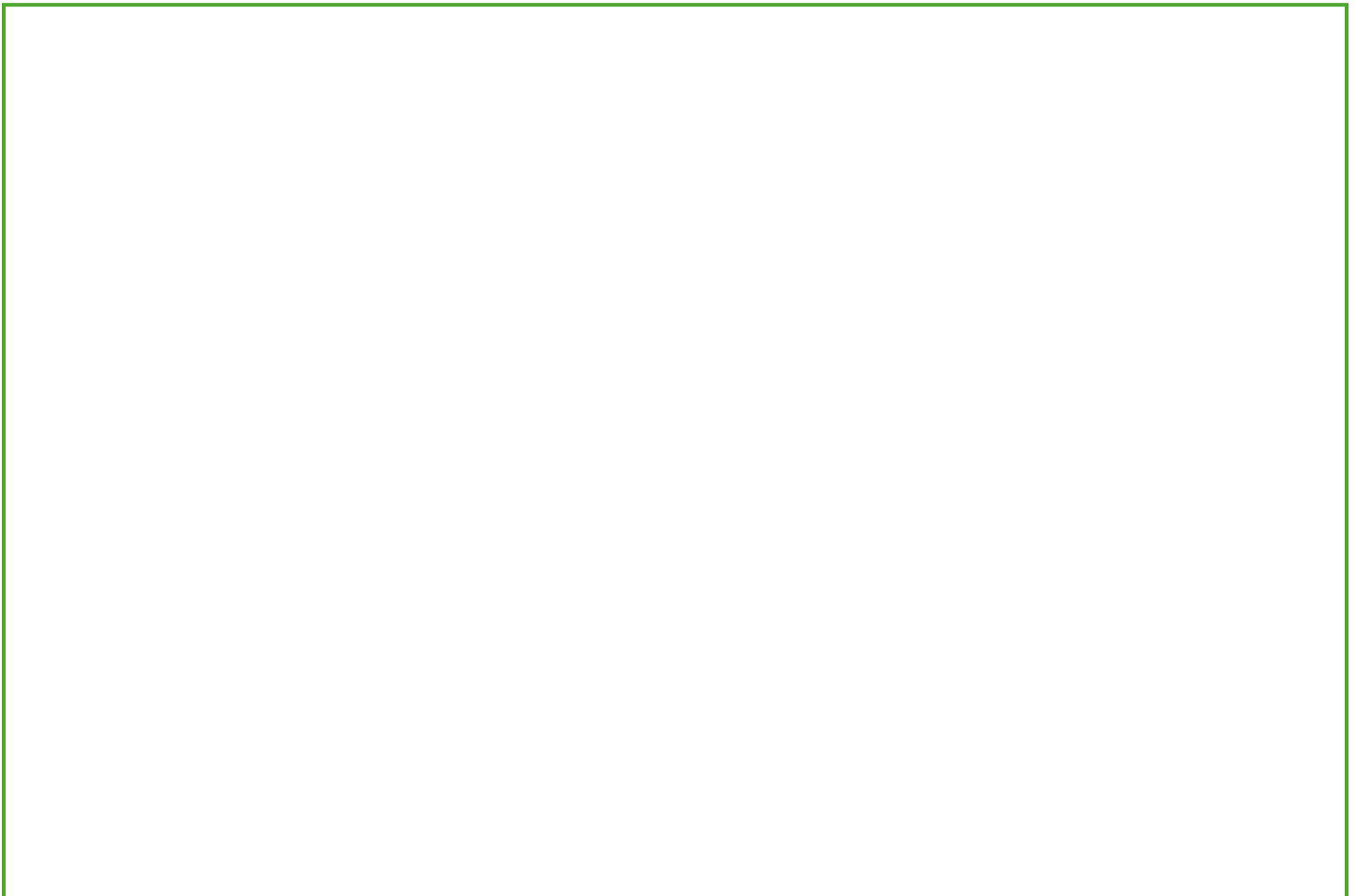


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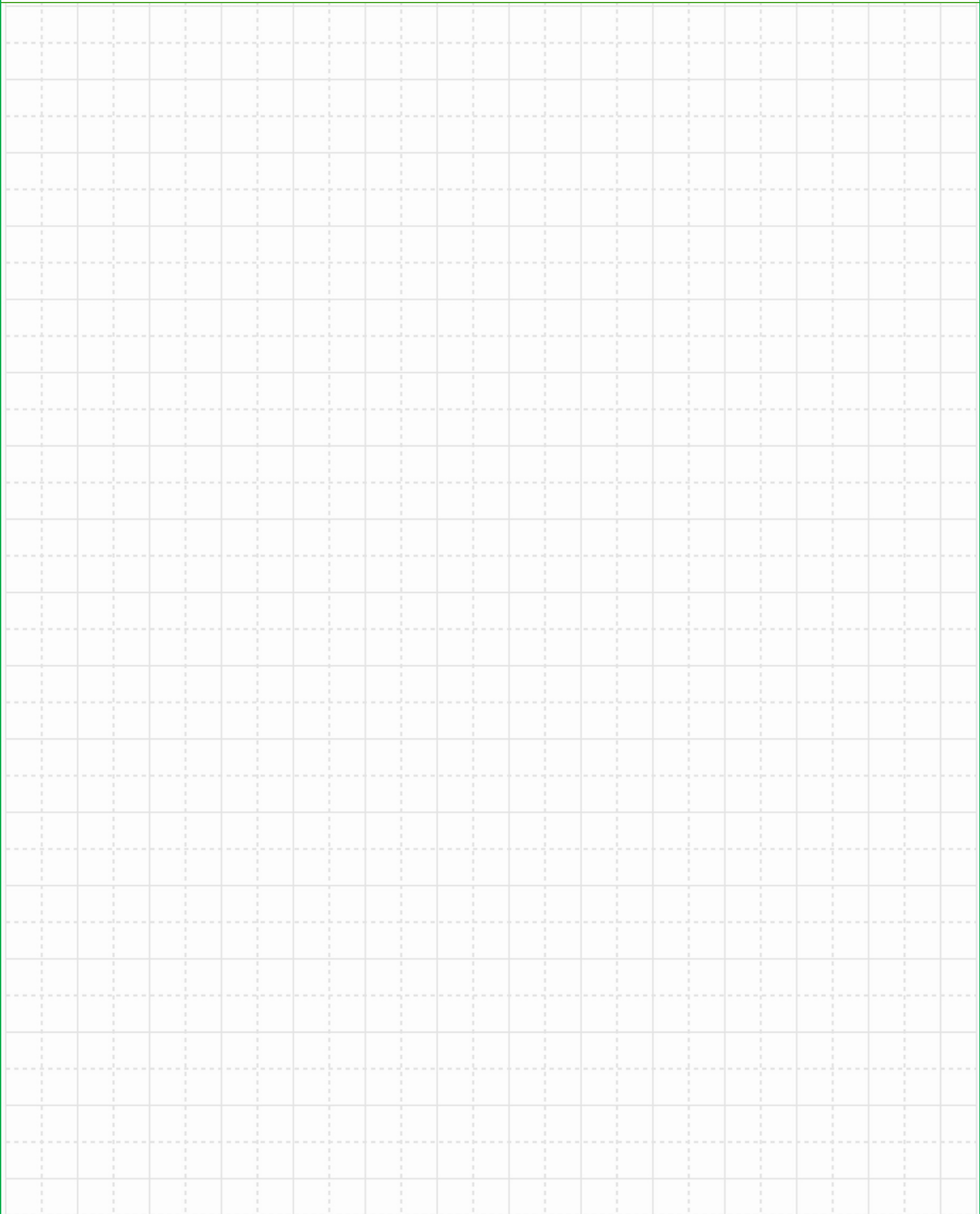
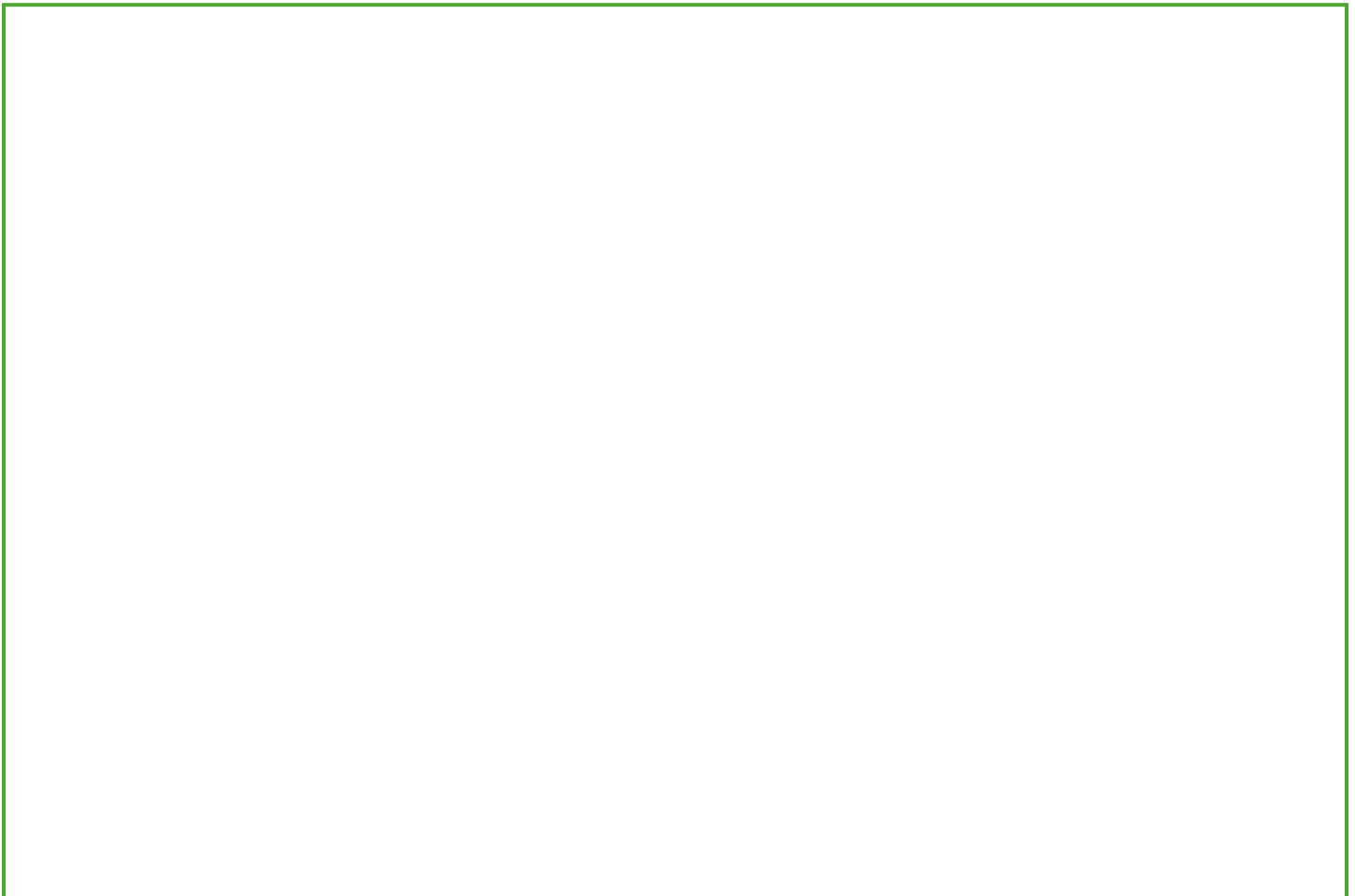


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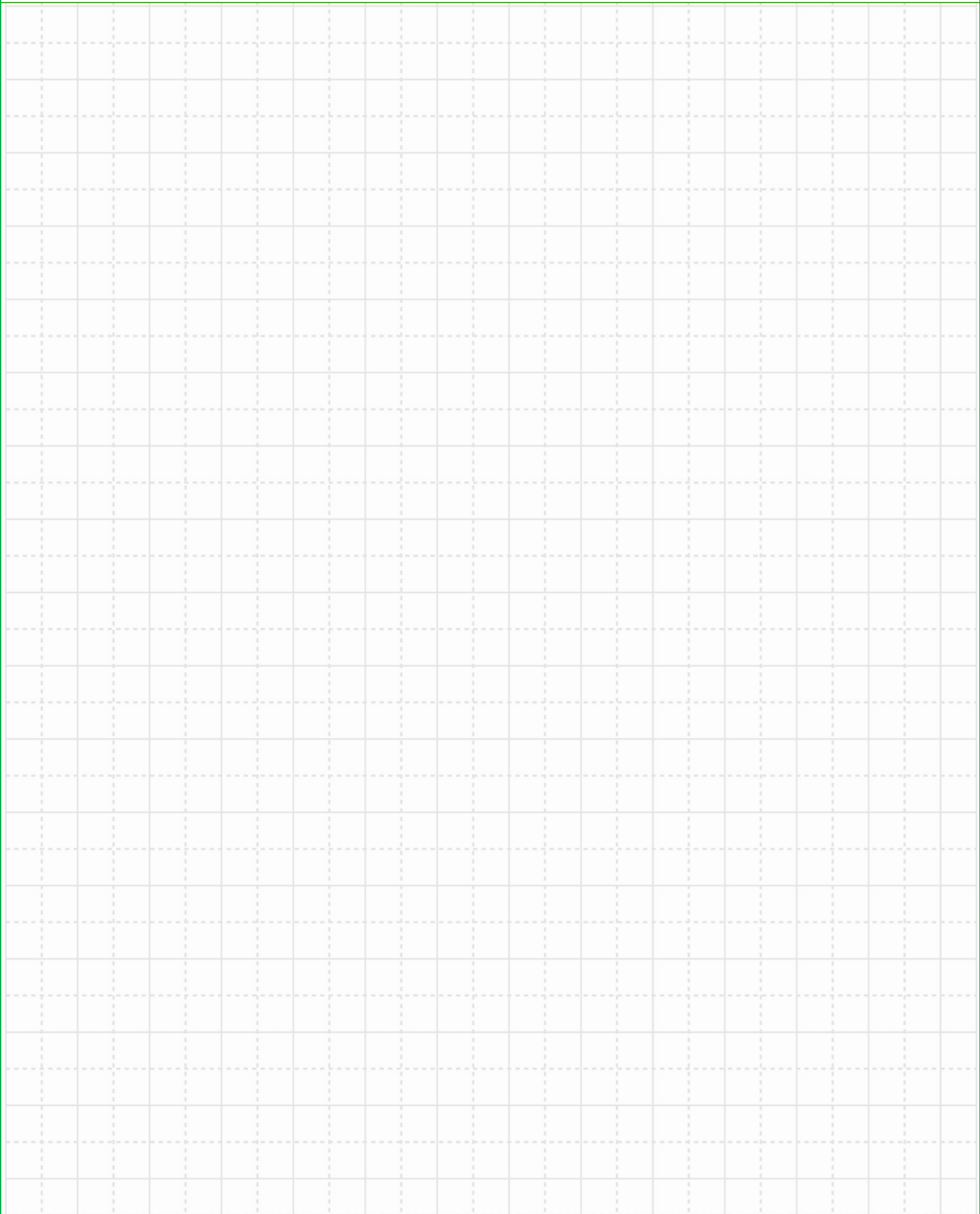
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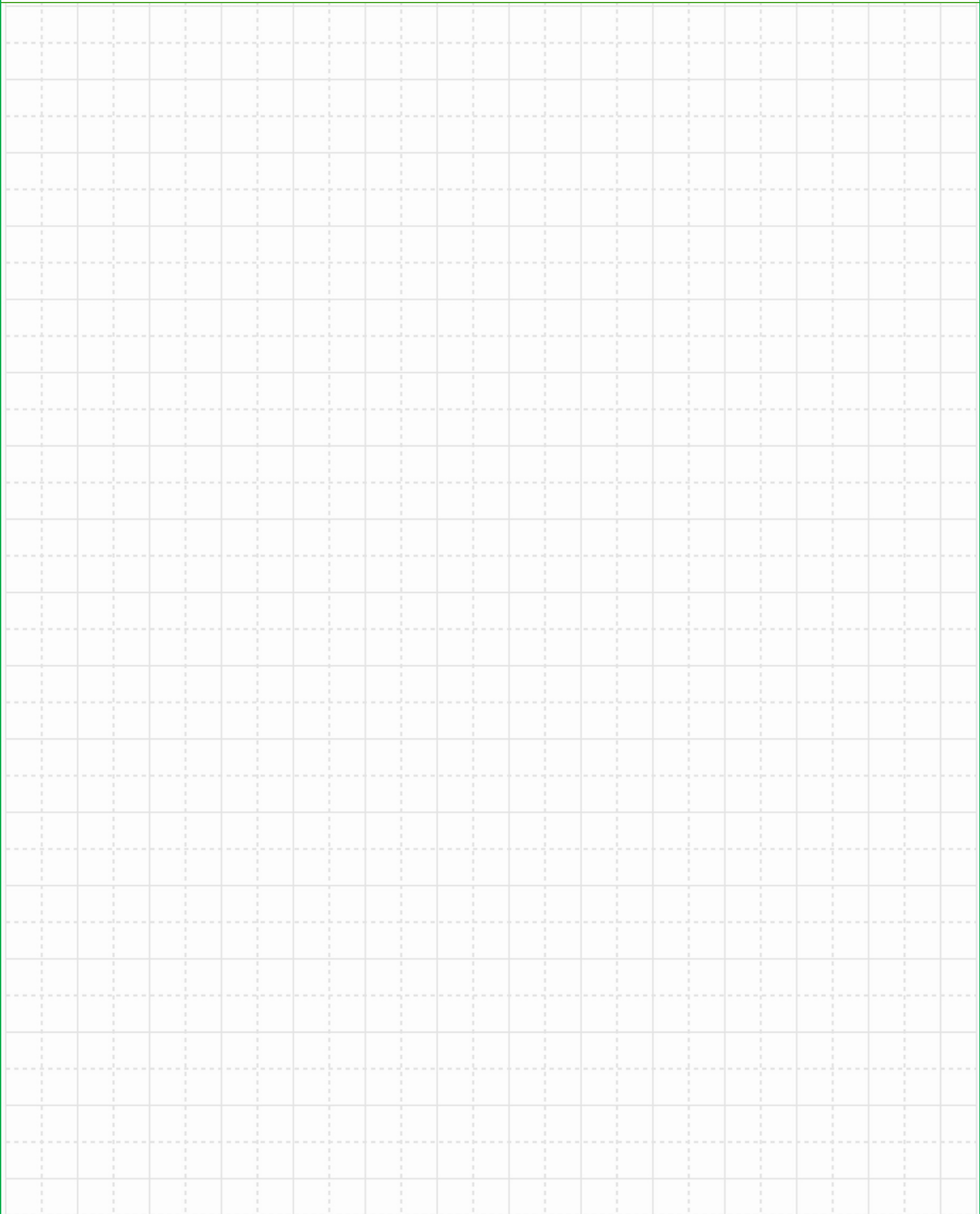
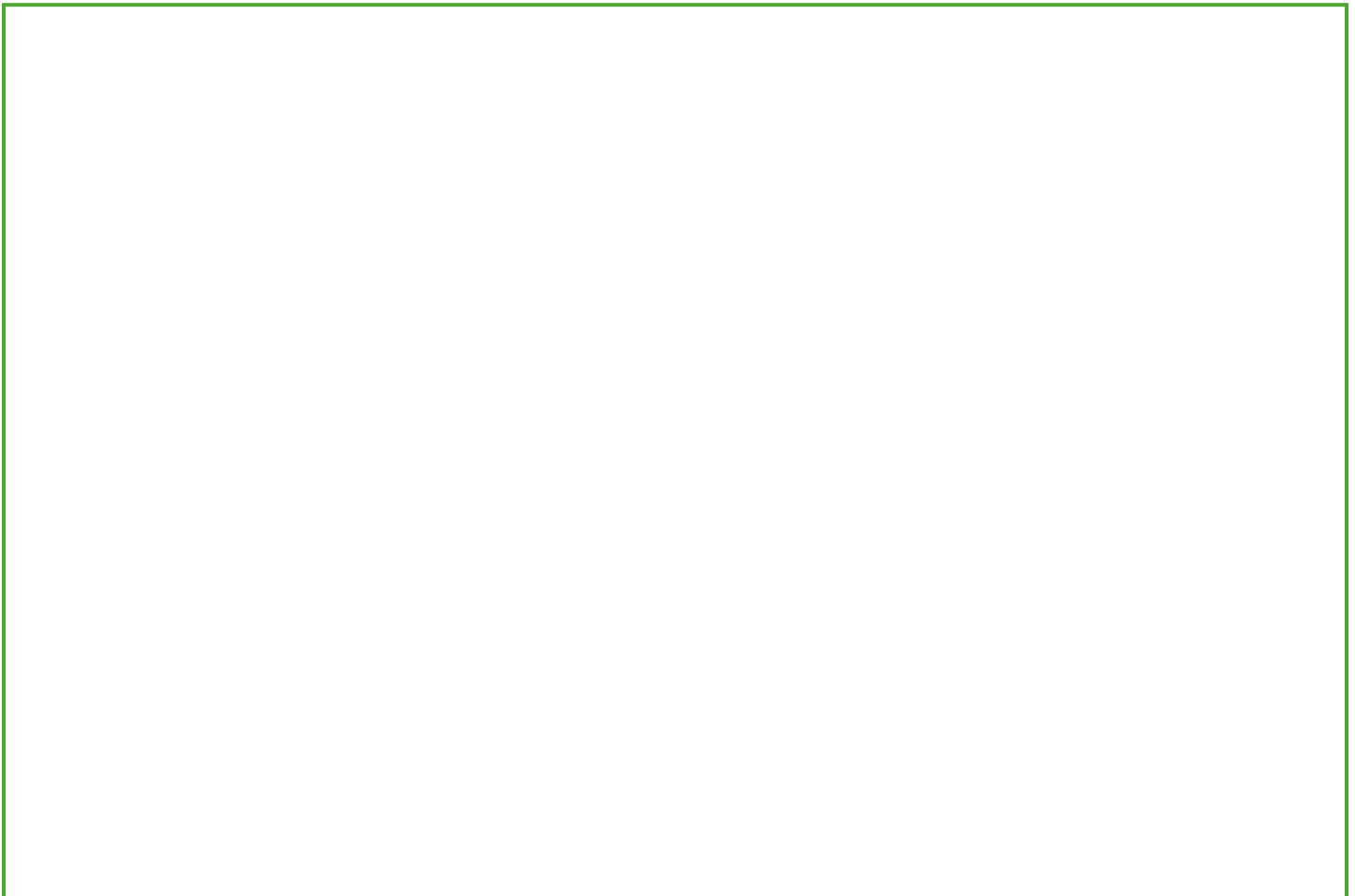


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