

Music

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[Loops](#)

[Royalty-Free Music](#)

PDFs

[Graph/Grid Paper](#)

[Monthly Calendars](#)

[Yearly Calendars](#)

Literature/Arts

[British Authors](#)

[Name Database](#)

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Other

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Free Online Graph Paper / Grid Paper PDFs



Downloadable and very printable, I find these PDFs extremely useful.

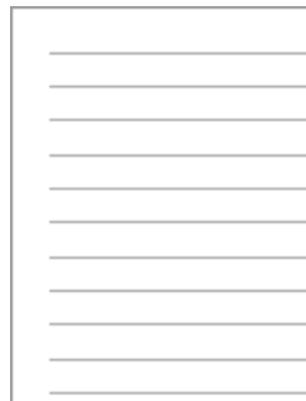
So, you can make a [24x30 inch sheet with a green one-inch 10 point grid](#). Obviously I cannot anticipate all needs, but the grids below should cover most common ones.

Notice to people with Spam Blocks

If you have a Spam blocker that requires authentication, such as those from ChoiceMail or Earthlink - I will not take steps to add myself to your whitelist. Add me to your whitelist *before* you send out your email, or you won't ever receive my replies.

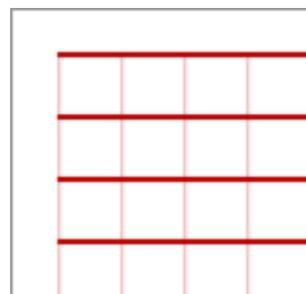
Lined Paper

[Lined Paper PDF Generator](#) - Just horizontal lines. I needed this a while back, so I figured other people might also need it.



Lined Paper with Light Verticals

[Lined Paper with Light Verticals](#)

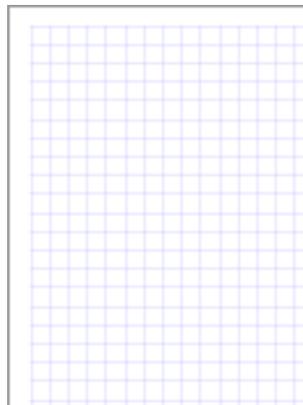


[PDF Generator](#) - Horizontal lines with vertical lines being in a lighter color. The weights of both the lines can be adjusted.



Graph Paper

[Graph Generator Lite](#) - Specify the number of squares you want - and the size of them.



[Plain Graph Paper PDF Generator](#)

[Generator](#) - Set your border and grid spacing (i.e. 4 lines per centimeter) to get as much graph as possible on your paper.

Multi-Width

[Multi Width Generator](#)

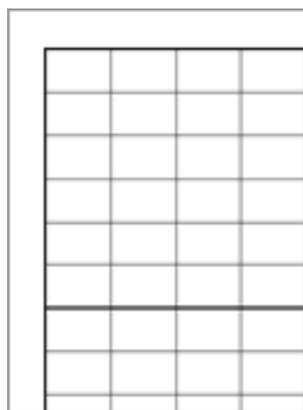
For those who want extra border on the left side of the page, and only need 2 different linewidths, try this [experimental PDF generator](#).



Asymmetric

[Asymmetric Graph Paper Generator](#)

Asymmetric graph paper is typically used for knitting patterns. Knit stitches are wider than they are tall. You can set your own

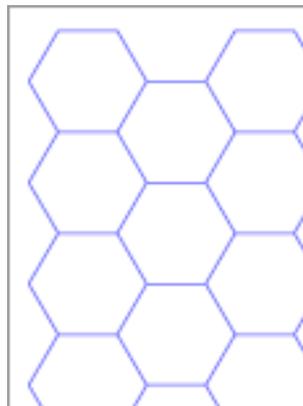


width to height ratio here to accomodate the type of stitch used.

Hexagonal

[Hexagonal PDF Generator](#)

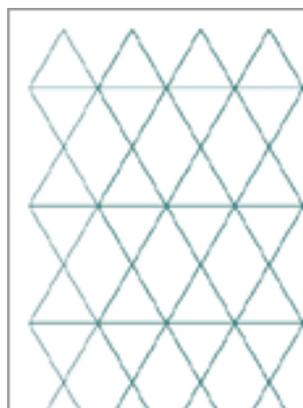
Why hex? Because I'm insane - and someone asked for it.



Semi-bisected Trapezoid

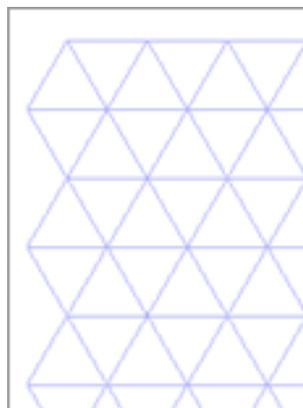
[Semi-Bisected Trapezoid PDF Generator](#)

Every othre trapezoid is bisected into triangles. This is used for sketching piping and wiring diagrams for factory machinery. If you want this in landscape format, simply set your page size to wider than it is tall (e.g. 11x8.5).



Equilateral Triangle (Isometric)

[Equilateral Triangle PDF Generator](#)

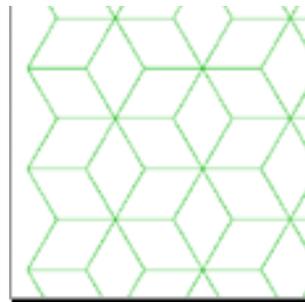


Tumbling Block -



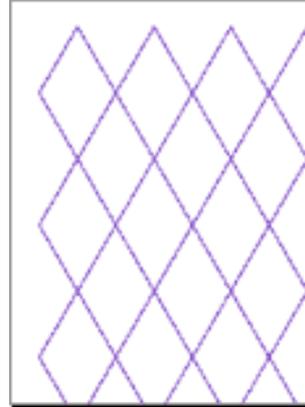
Trapezoid

[Tumbling Block PDF Generator](#)



Diamond - Trapezoid

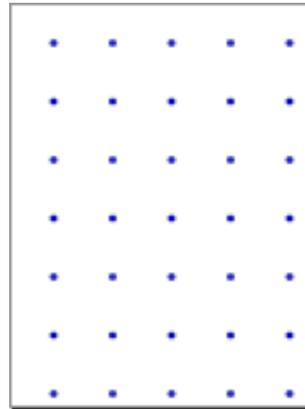
[Diamond - Trapezoid PDF Generator](#)



Dots

Like normal graph paper - but with dots instead of lines.

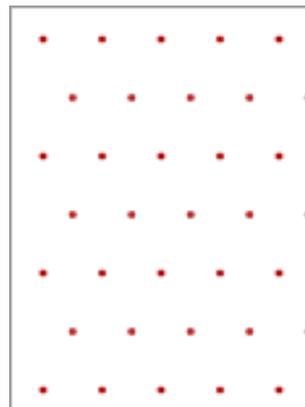
[Go make your own Dot Paper PDF!](#)



Iso-Dots

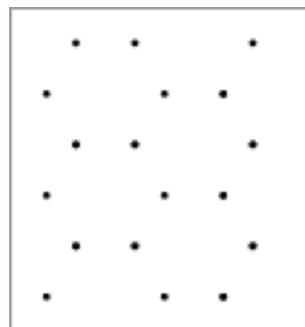
Like grid dots, but every other row is offset by half. These are **not** equilateral triangles.

[Go make your own Iso-Dot Paper PDF!](#)



Hex Dot

Hexes with dots at the vertices instead of lines between them.



- [1/2" between closest dots.](#)

Black

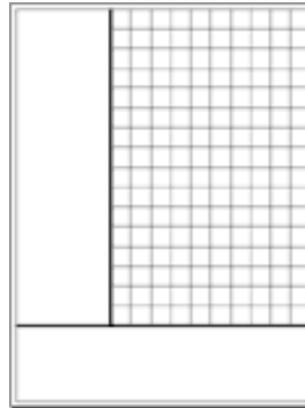


- [1/2" between closest dots.](#) Grey
- [1/4" between closest dots.](#) Black
- [1/4" between closest dots.](#) Grey
- [Centimeter diameter.](#) (Tiny dots) Black
- [Centimeter diameter.](#) (Tiny dots) Grey
- [Centimeter diameter.](#) (Tiny dots) Graph Blue

Cornell Note Taking System PLUS Graph Paper

One page divided into 3 sections, with a grid in one of them.

Experimental. Please send in suggestions.



- [Cornell Generator](#)

Cornell Note Taking System PLUS Lines

One page divided into 3 sections, with a bunch of lines in one of them. I added this because of the HUGE popularity of the standard Cornell Graph Paper.



- [Cornell Generator](#)

Music Notation



Staves

From one to 11 lines per staff
(useful for percussion, bass or
guitar tabs). A major advantage is
you can make these in colors other
than black very easily. This was my most requested page -
so for all of you who asked for staff paper, here you go!



- [Staff Paper Generator](#)

Writing and Penmanship Paper

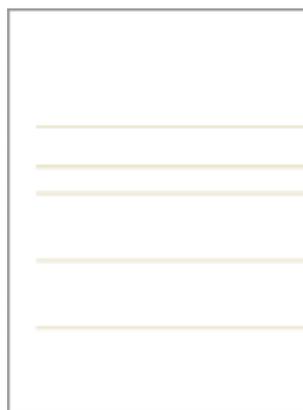
Also by special request (actually
multiple special requests). This
generator is incomplete - but
functional.



- [Writing and Penmanship Paper](#)

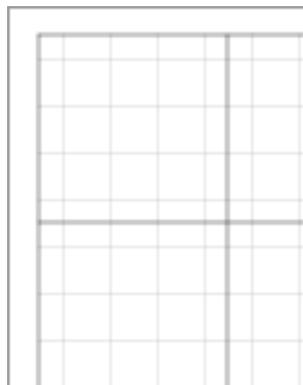
Calligraphy Guideline Paper

- [Calligraphy Guideline Paper](#)



Celtic Knot / Celtic Knotwork Graph Paper

1" major grid with minor lines at 1/8,
3/8, 5/8, and 7/8".





- [Celtic graph pattern](#). Grey
- [Celtic graph pattern](#). Light Blue

"174 Paper"

By special request - "[174 Paper](#)"... used by the U.K. Government for... stuff, I guess.

Need something else? Chances are someone else could use it too. [Email me](#) with the details of what you'd like! If I can do it - I'll put it up here.

Tip number one!

Though I **do** return the correct header for a PDF, sometimes Explorer gets confused when downloading... So if you're running Windows, you may need to right-click a link and choose "Save link to disk".

Tip number two!

Some people may need to turn off the option in Adobe's Acrobat reader "shrink to fit" which may resize the grid slightly to fit your printer's printable area.

Tip number three! (for hex and iso)

If you want the hexes aligned with the other edge of the paper, just make your paper size "11 x 8.5" and print the result in landscape mode!

Other

- [Sudoku](#)
- [1mm with 1cm bold. Has an overlay of 5mm grid offset 2.5mm from other grids.](#) Blue
- [1/20" with 1" bold. 17x11 with extra margin on the left.](#) Grey

Other Sites' Resources

- [Probability Graph Paper](#)
- [Logarithmic and Polar](#)

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Hex Graph Paper PDF Generator

Set document units to: **Centimeters** **Inches**

PDF Document Size:
 8.5 x 11 inches
 11 x 17 inches
 A4 (21 x 29.7cm)
 A3 (29.7 x 42cm)
 other... x

Minimum Border: _____ points

Grid Line Weight: (0.05 is very fine; 0.5 is average; 20 is very very wide)

Hex Leg Length: _____

Hex Colour:
 Black
 Light
 Grey
 Red: **Light**
 Green: **Blue**
 Blue: **Red**
Blue
Green

This generator makes this type of Graph Paper

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick suggestions for common



Calculating various bits about regular hexagons

Given length of a side x ...

Tip to tip across the hex is $2x$.

Height of the hex flat side to flat side is $2x(\sqrt{3}/4)$ or about $1.732x$.

Area of the hex is $1.5(x^2 (\sqrt{3}))$ or about $2.56x^2$.

Example: Making graph paper with 4 hexes per square inch

Hexagon with a side length of x ... The area of that hex would be about...

$$2.6 (x^2)$$

So for 4 hexes per square inch...

$$4 * 2.6 (x^2) = 1$$

$$x^2 = 1/10.4$$

$$x^2 = .096$$

$$x = .31 \text{ inches per side.}$$

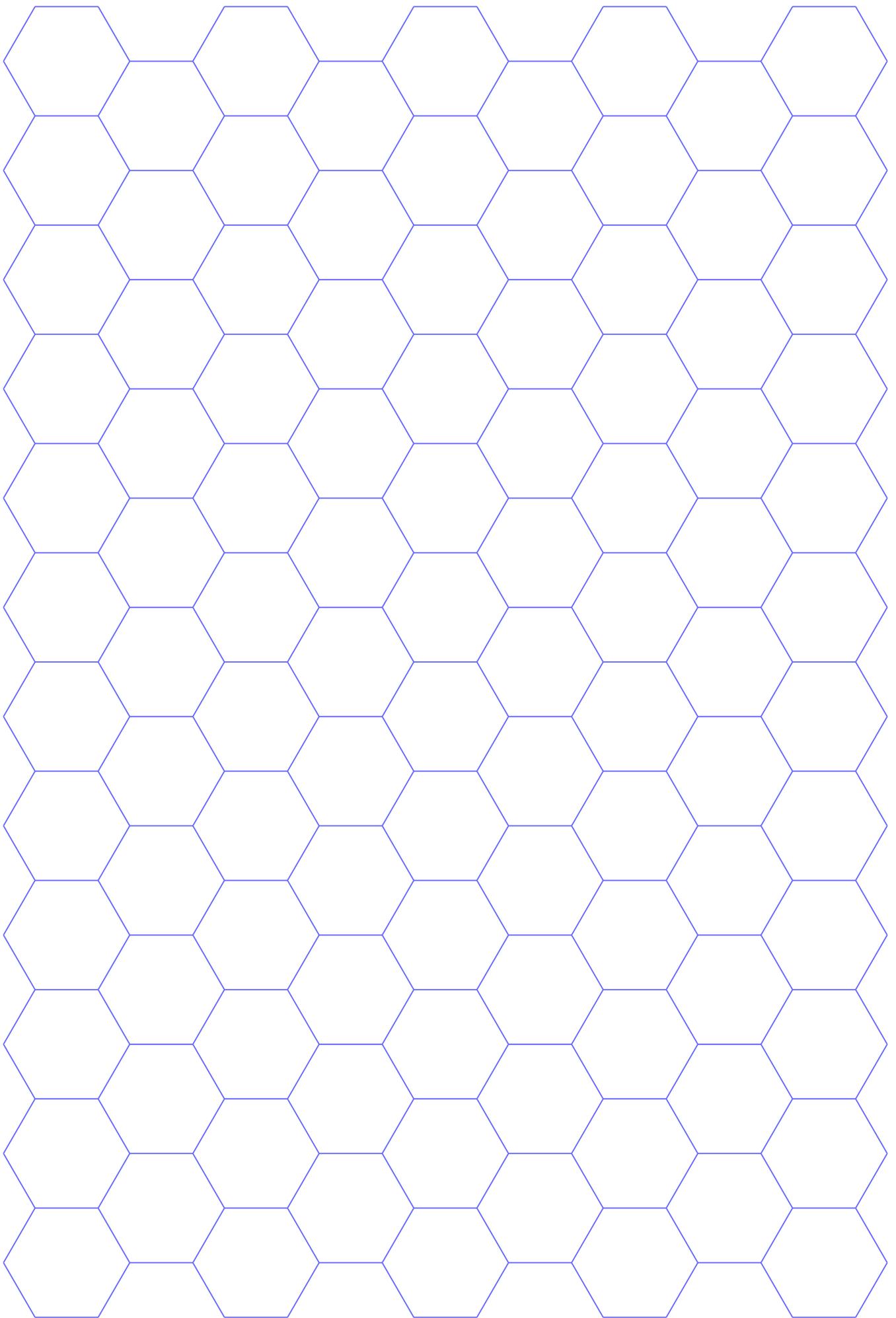
Extra: 1 sq. in. per hex \approx 0.6204

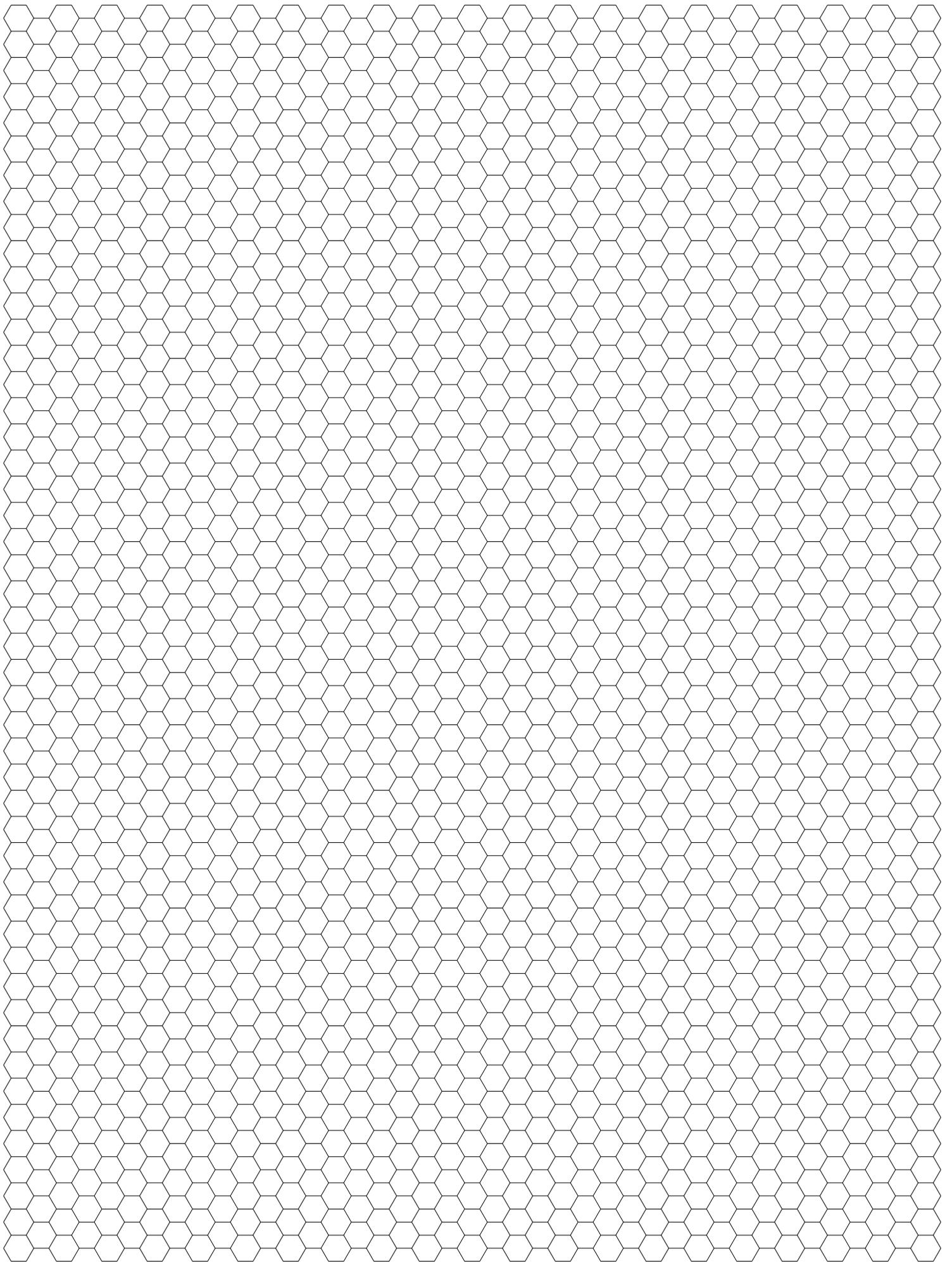
Pregenerated Hexagonal Graph Paper

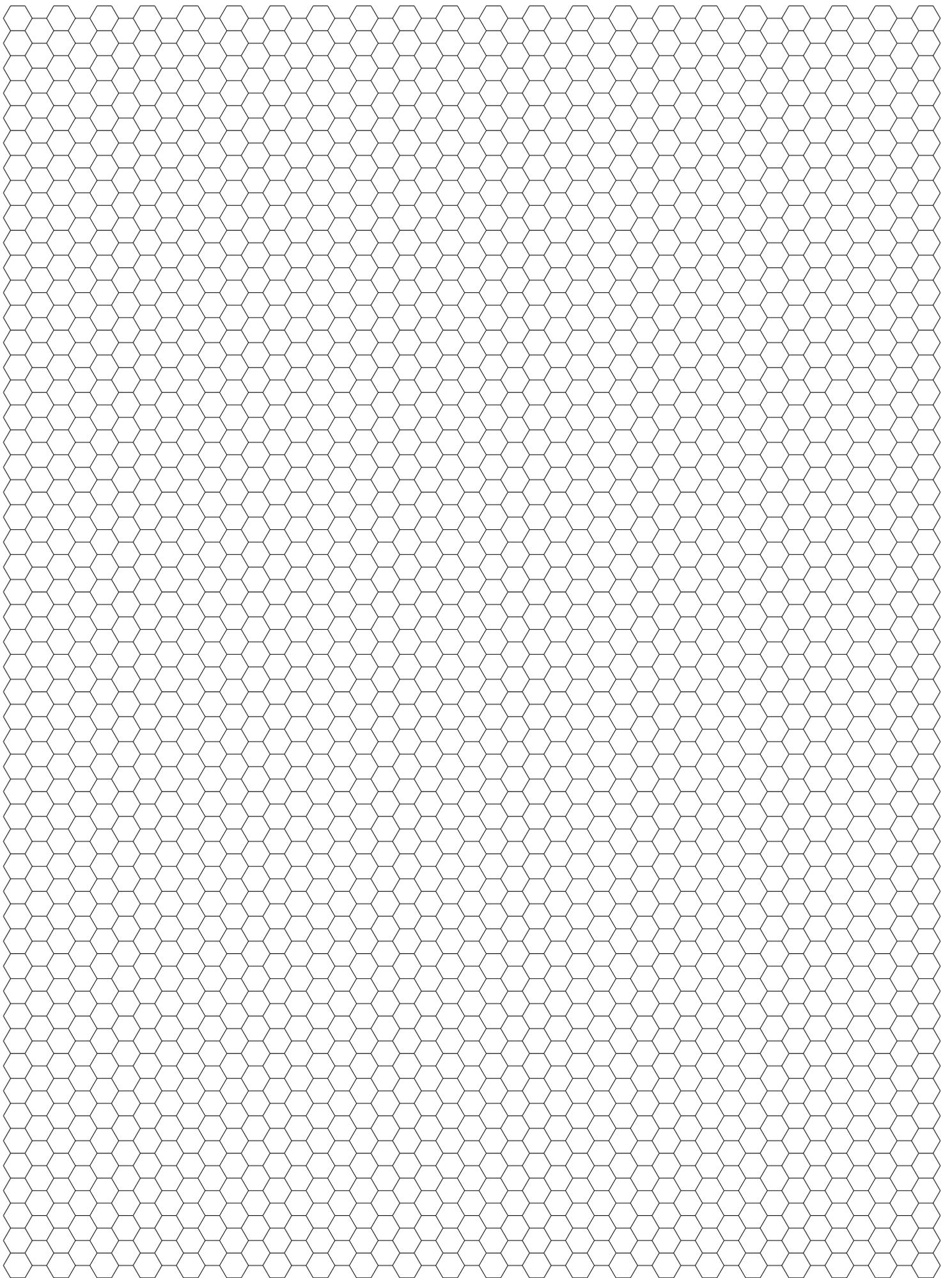
- [4 hexes per SQUARE inch.](#) Grey
- [5 hexes per SQUARE inch.](#) Grey
- [4ish hexes per LINEAR inch.](#) Black
- [5ish hexes per LINEAR inch.](#) Black

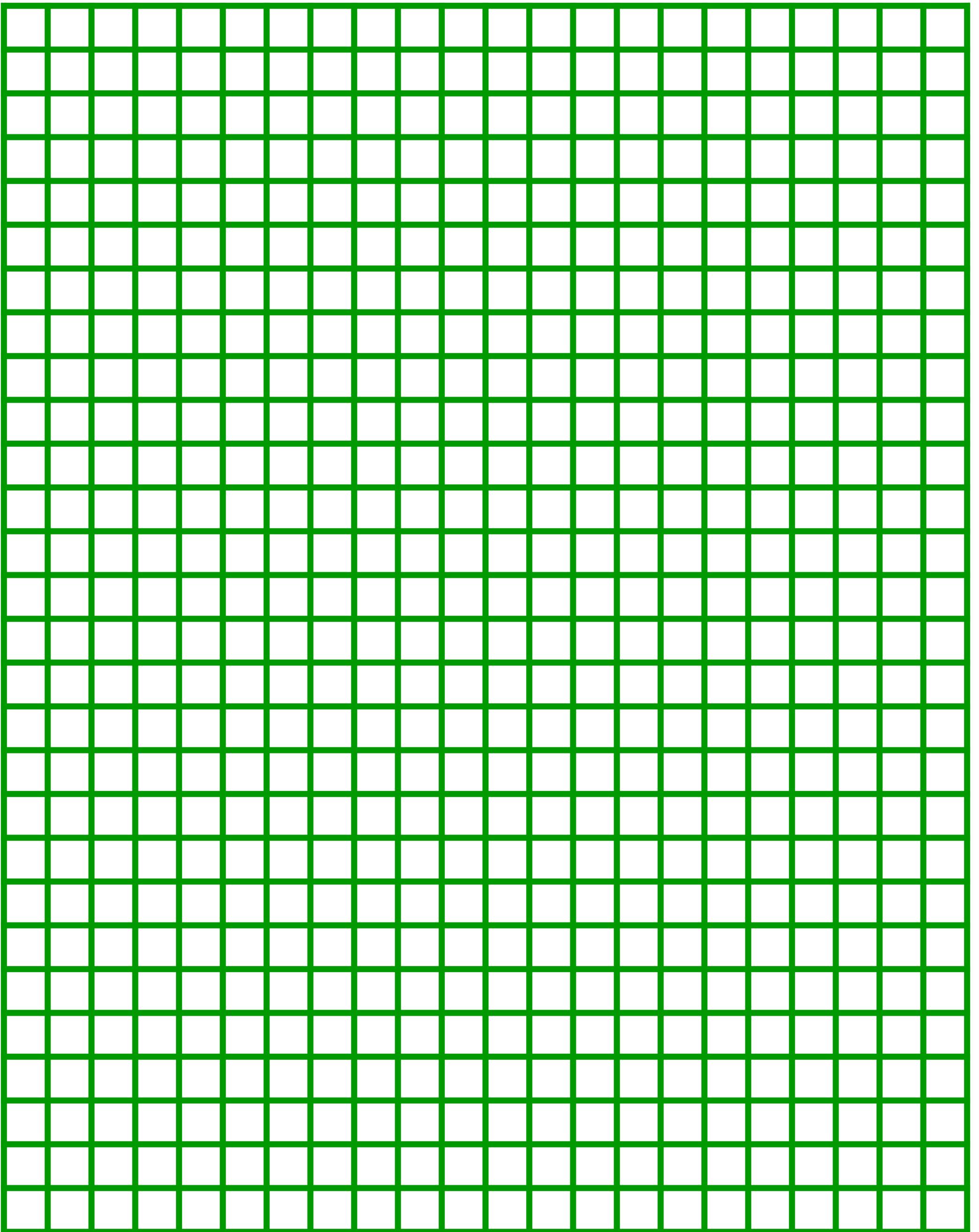
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Lined Paper PDF Generator

Set document units to: **Centimeters** or **Inches**

PDF

Document

Size:

- 8.5 x 11 inches
- 11 x 17 inches
- A4 (21 x 29.7cm)
- A3 (29.7 x 42cm)
- other... x



This generator makes this type of Lined Paper

Minimum

Border:

Line Weight:

points (0.05 is very fine; 0.5 is average; 20 is very very wide)

Line

Spacing:

Black

Light

Grey

Light

Blue

Red:

Green:

Blue:

Red

Blue

Green

Line Colour:

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick



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Set document units to: Centimeters Inches

PDF Document Size: 8.5 x 11 inches 11 x 17 inches A4 (21 x 29.7cm) A3 (29.7 x 42cm) other... x

Minimum Border: This generator makes this type of Graph Paper

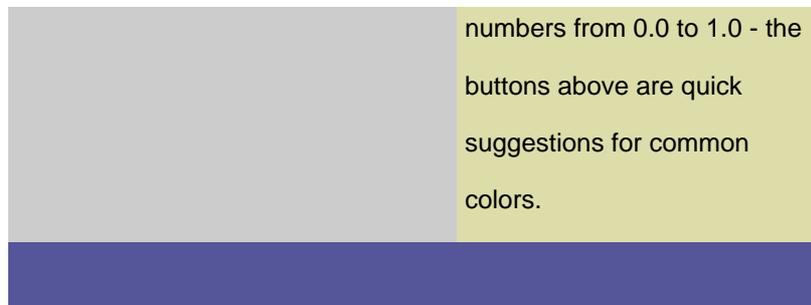
Horizontal Line Weight: points (0.05 is very fine; 0.5 is average; 20 is very very wide)

Vertical Line Weight: points (0.05 is very fine; 0.5 is average; 20 is very very wide)

Grid Spacing:

Grid Colour: Black Light Grey Light Blue Red Blue Green

You may create any color of grid by filling in the Red, Green, and Blue values with



Pregenerated Files

- [1 Centimeter.](#) Black
- [1 Centimeter.](#) Blue
- [1mm with 5mm semi-bold and 10mm bold.](#) Black
- [1mm with 5mm semi-bold and 10mm bold.](#) Blue
- [2mm with 10mm bold.](#) A4 format.

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Plain Graph Paper PDF Generator

Set document units to: **Centimeters** **Inches**

PDF Document Size:
 8.5 x 11 inches
 11 x 17 inches
 A4 (21 x 29.7cm)
 A3 (29.7 x 42cm)
 other... x

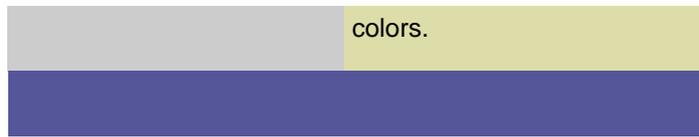
Minimum Border:
 This generator makes this type of Graph Paper

Grid Line Weight: points (0.05 is very fine; 0.5 is average; 20 is very very wide)

Grid Spacing:

Grid Colour:
 Black
 Light
 Grey
 Red: Light
 Green: Blue
 Blue: Red
 Blue
 Green

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick suggestions for common



Pregenerated Files

- [1 Centimeter.](#) Black
- [1 Centimeter.](#) Blue
- [1mm with 5mm semi-bold and 10mm bold.](#) Black
- [1mm with 5mm semi-bold and 10mm bold.](#) Blue
- [2mm with 10mm bold.](#) A4 format.

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PDF Document Size (inches): [1-40]	x
ADDITIONAL LEFT BORDER (inches): [0-4]	
Minimum Border Width (inches): [0-4]	
Grid Line Weight (points): [0.05-20]	Largest Smallest
Grid Spacing (lines/inch): [0.2-30]	Largest Smallest
Grid Colour (0-1): [0-1]	R: G: B:

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Multi-Width Graph Paper PDF Generator

Set document units to: Centimeters Inches

PDF Document Size:

- 8.5 x 11 inches
- 11 x 17 inches
- A4 (21 x 29.7cm)
- A3 (29.7 x 42cm)
- other... x

Minimum Border: This generator makes this type of Graph Paper

Grid Line Weight:

- Largest points
- Medium points
- Smallest points

(0.05 is very fine; 0.5 is average; 20 is very very wide)

Grid Spacing:

- Largest
- Medium
- Smallest

Grid Colour:

Red: **Black** **Light**
Grey **Light**

Green: **Blue** **Light**

Blue: **Red** **Blue**
Green

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick suggestions for common colors.

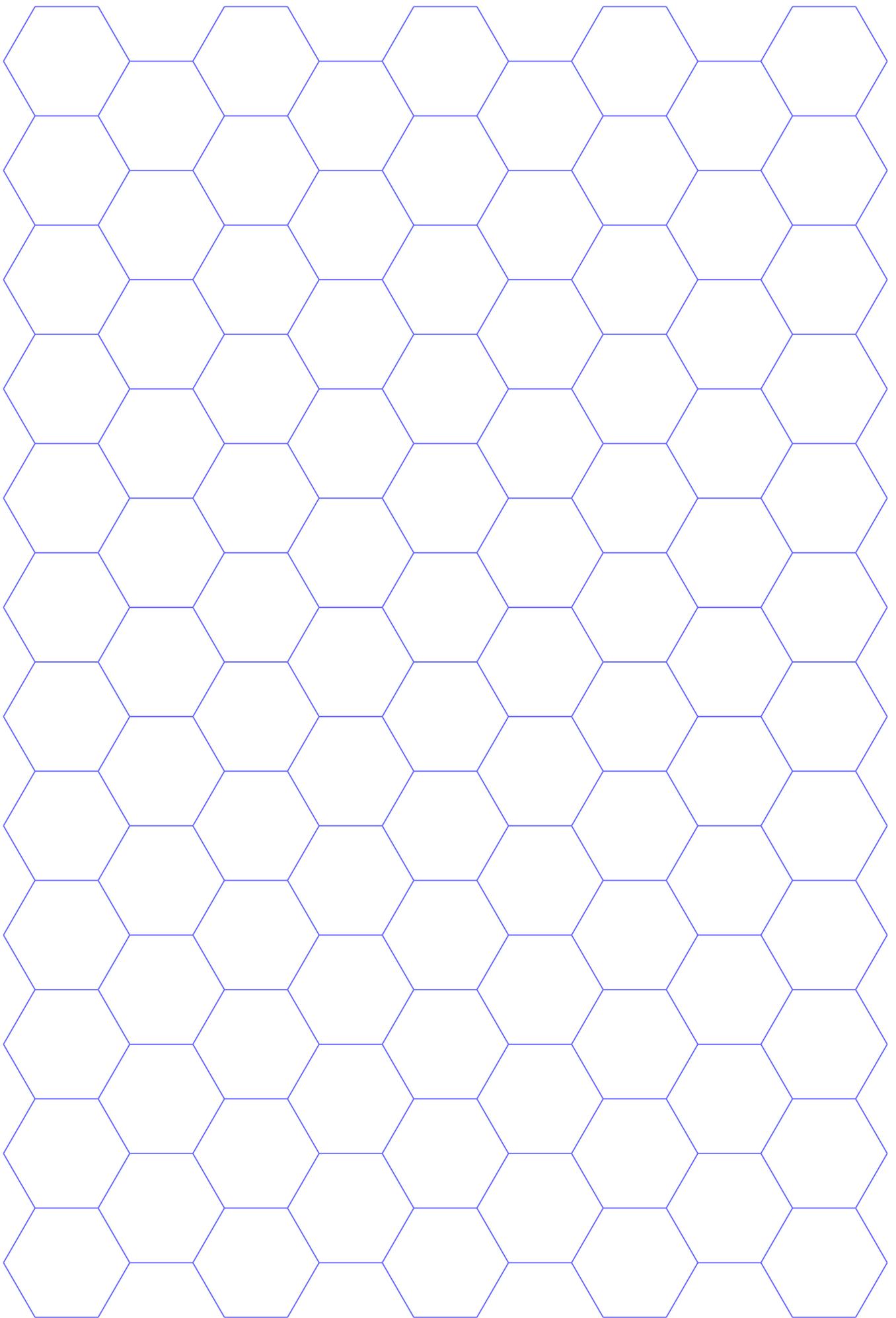
Pre-Generated Graph Paper

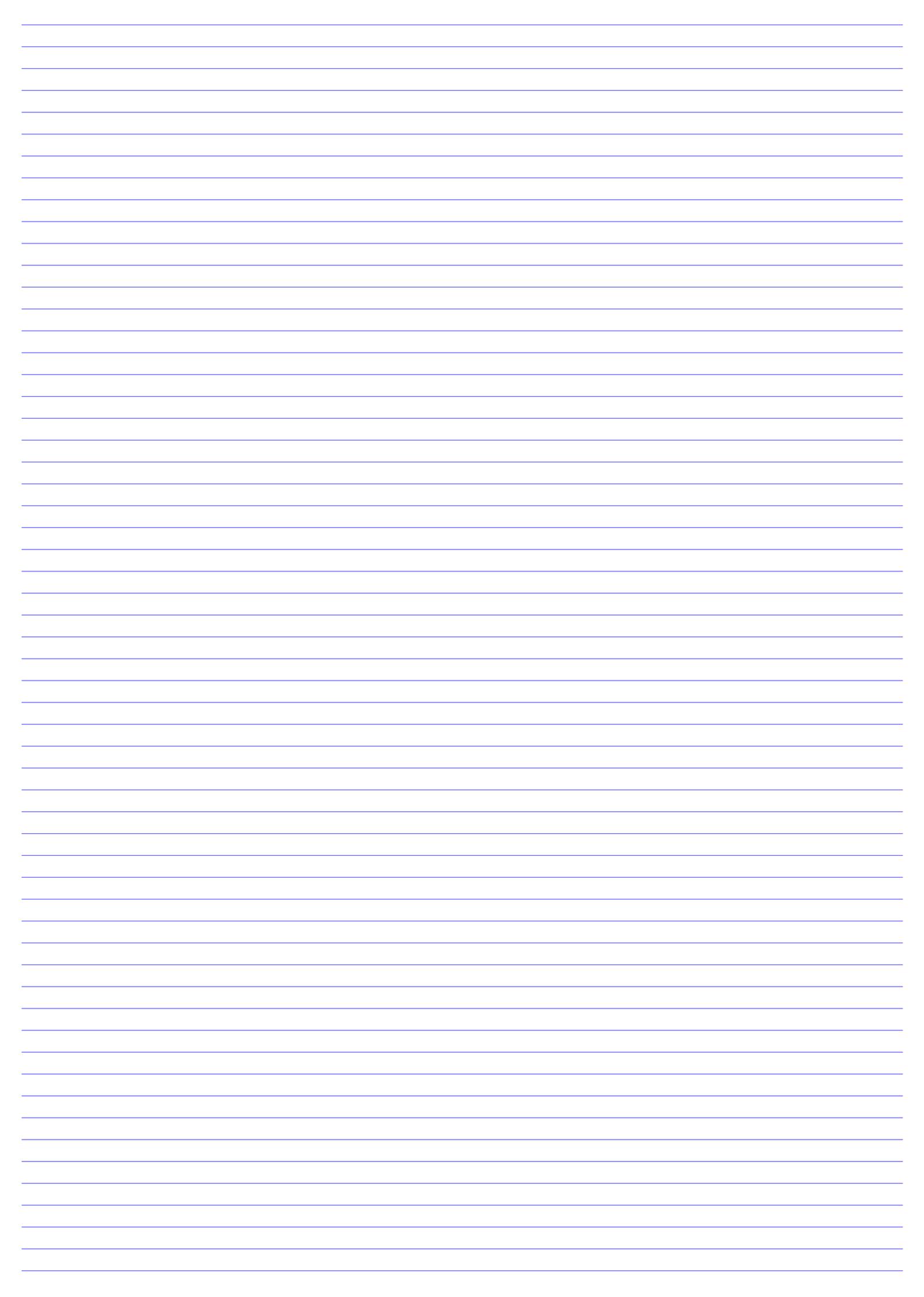
These are custom created pieces I've gotten requests for. They have thicker lines every so often.

- 1" major lines with 1/10" minor lines. Grey/Black
- 1/2" major lines with 1/10" minor lines. Grey/Black
- 1" major lines with 1/12" minor lines. Blue.
- 1" major lines with 1/12" minor lines. Grey/Black
- 1/2" major lines with 1/4" minor lines. Grey/Black
- Eighth inch minor lines with a major every 12. Blue.
- Eighth inch minor lines with a major every 12. 11x17. Blue.
- Eighth inch minor lines with a major every 12. Grey/Black.
- 1" major lines with 1/12" minor lines. 11x17. Grey/Black.
- 1mm with 5mm semi-bold and 10mm bold. Black
- 1mm with 5mm semi-bold and 10mm bold. Blue

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[Yearly Calendars](#)

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- 11 x 17 inches
- A4 (21 x 29.7cm)
- A3 (29.7 x 42cm)
- other...

Minimum Border:

This generator makes this type of Graph Paper

Grid Line Weight:

- Outside Border points
- Internal Hardlines points
- Grid points

(0.05 is very fine; 0.5 is average; 20 is very very wide)

Grid Spacing:

Note Taking Size:

- Horizontal (percent of printable area)
- Vertical (percent of printable area)

Grid Colour:

Red: **Black**
Light
Grey
Light

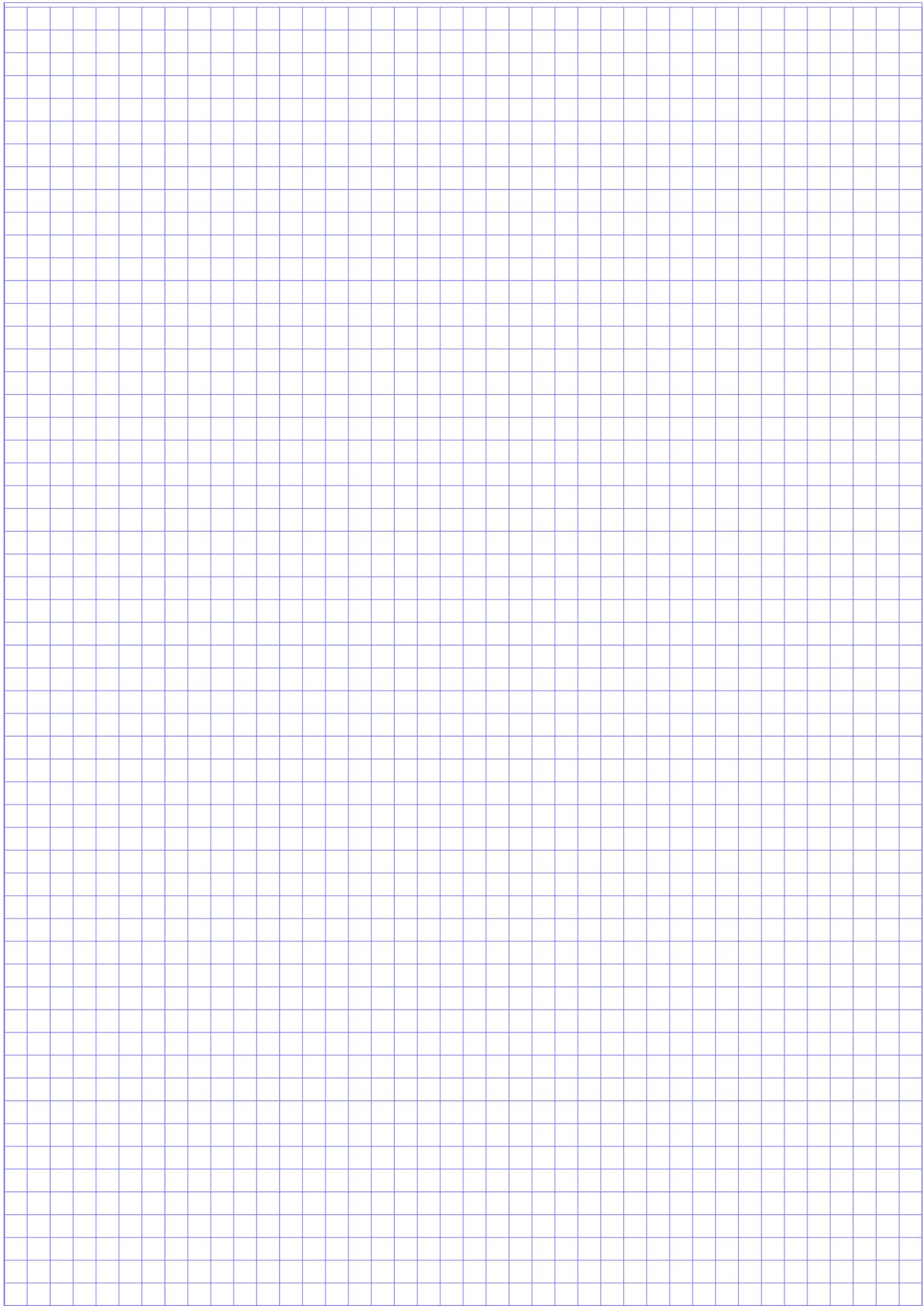
Green: **Blue**

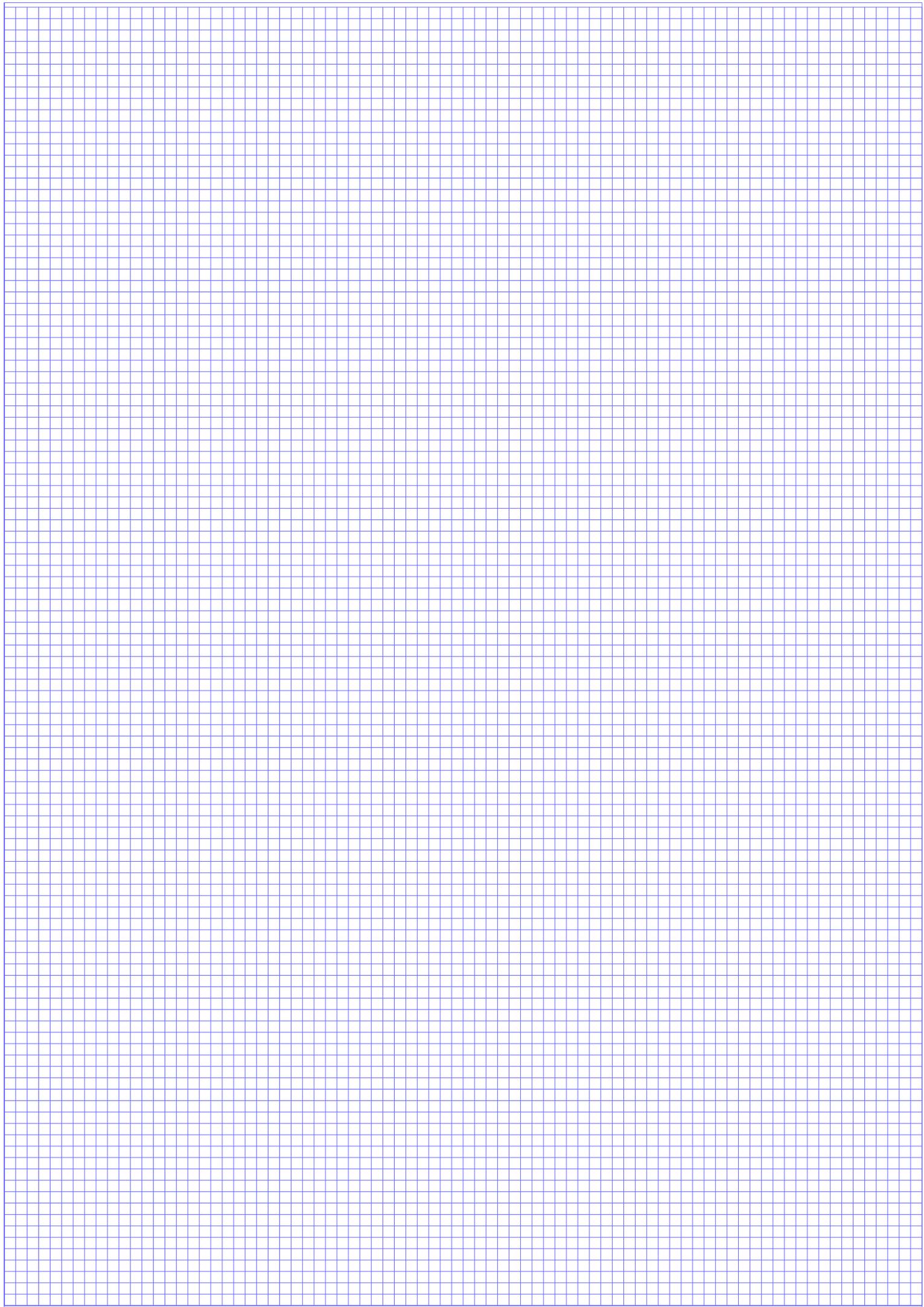
Blue: **Red**
Blue
Green

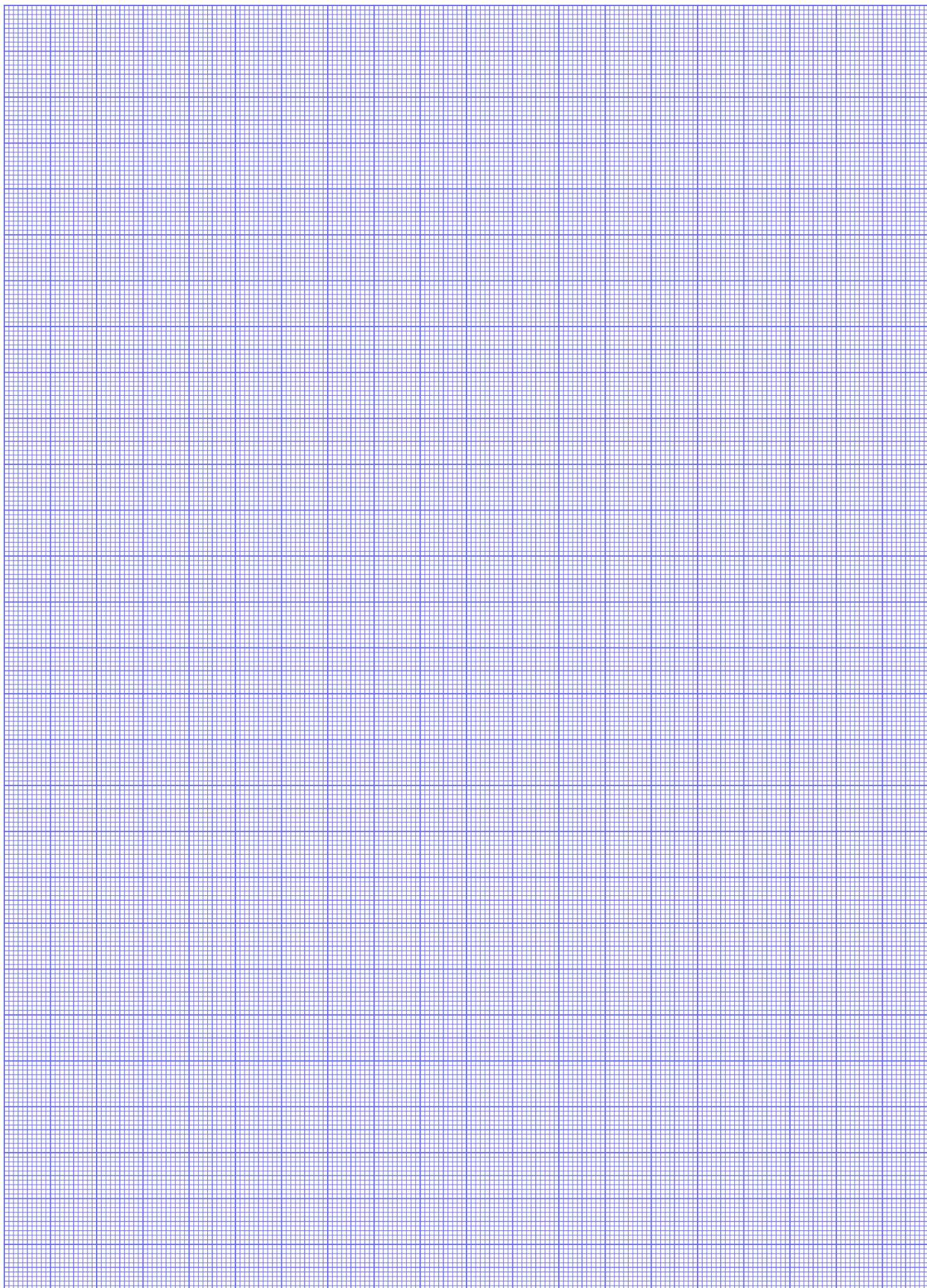
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Asymmetric Graph Paper PDF Generator

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- 8.5 x 11 inches
- 11 x 17 inches
- A4 (21 x 29.7cm)
- A3 (29.7 x 42cm)
- other... x

Minimum Border: This generator makes this type of Graph Paper

Grid Line Weight:

- Largest points
- Smallest points

(0.05 is very fine; 0.5 is average; 20 is very very wide)

Vertical Grid Spacing:

- Larger
- Smaller

Horizontal Grid Spacing:

- Larger
- Smaller

Grid Colour:

Red: **Black** **Light Grey** **Light Blue** **Blue**

Green: **Blue**

Blue: **Red** **Blue** **Green**

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick suggestions for common colors.

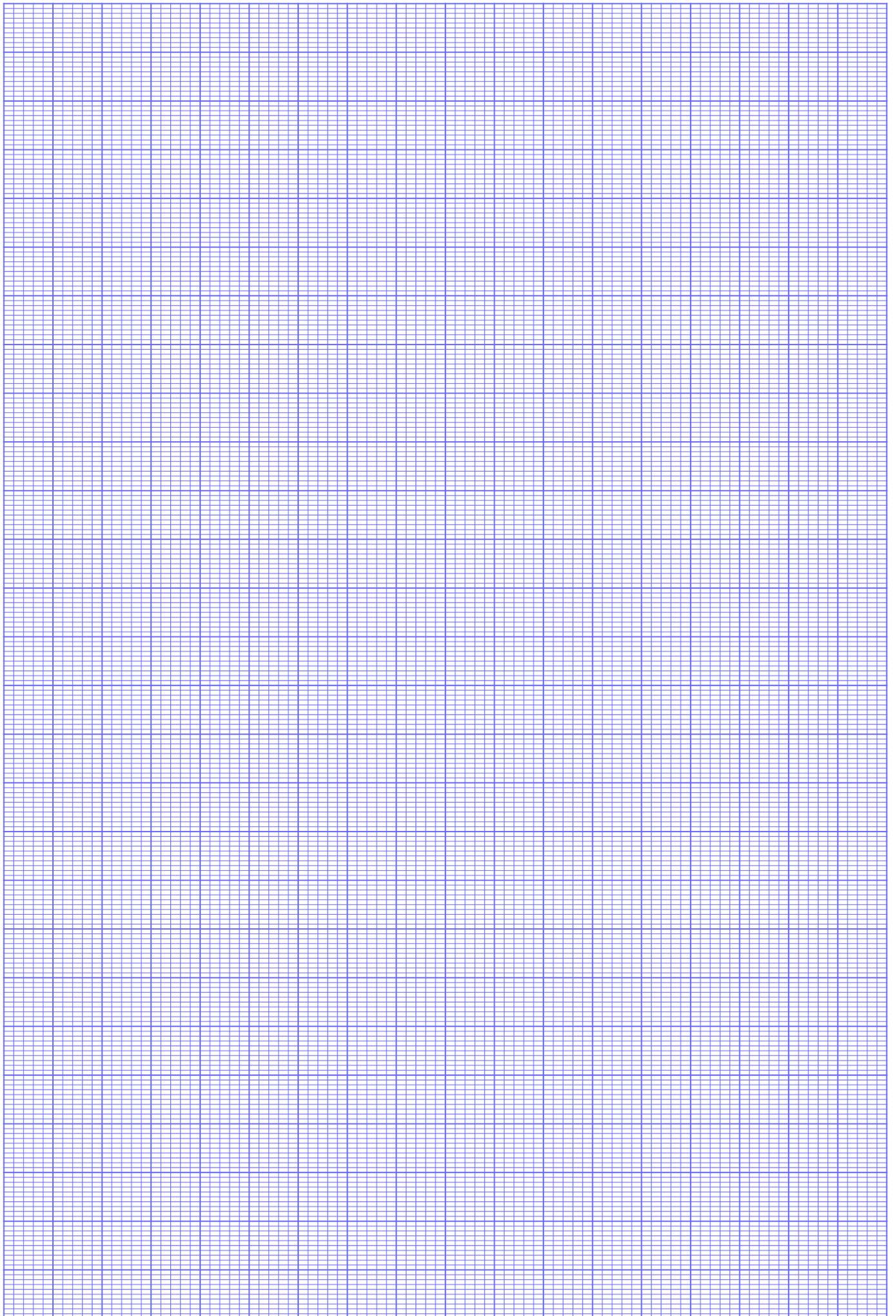
Pregenerated Files

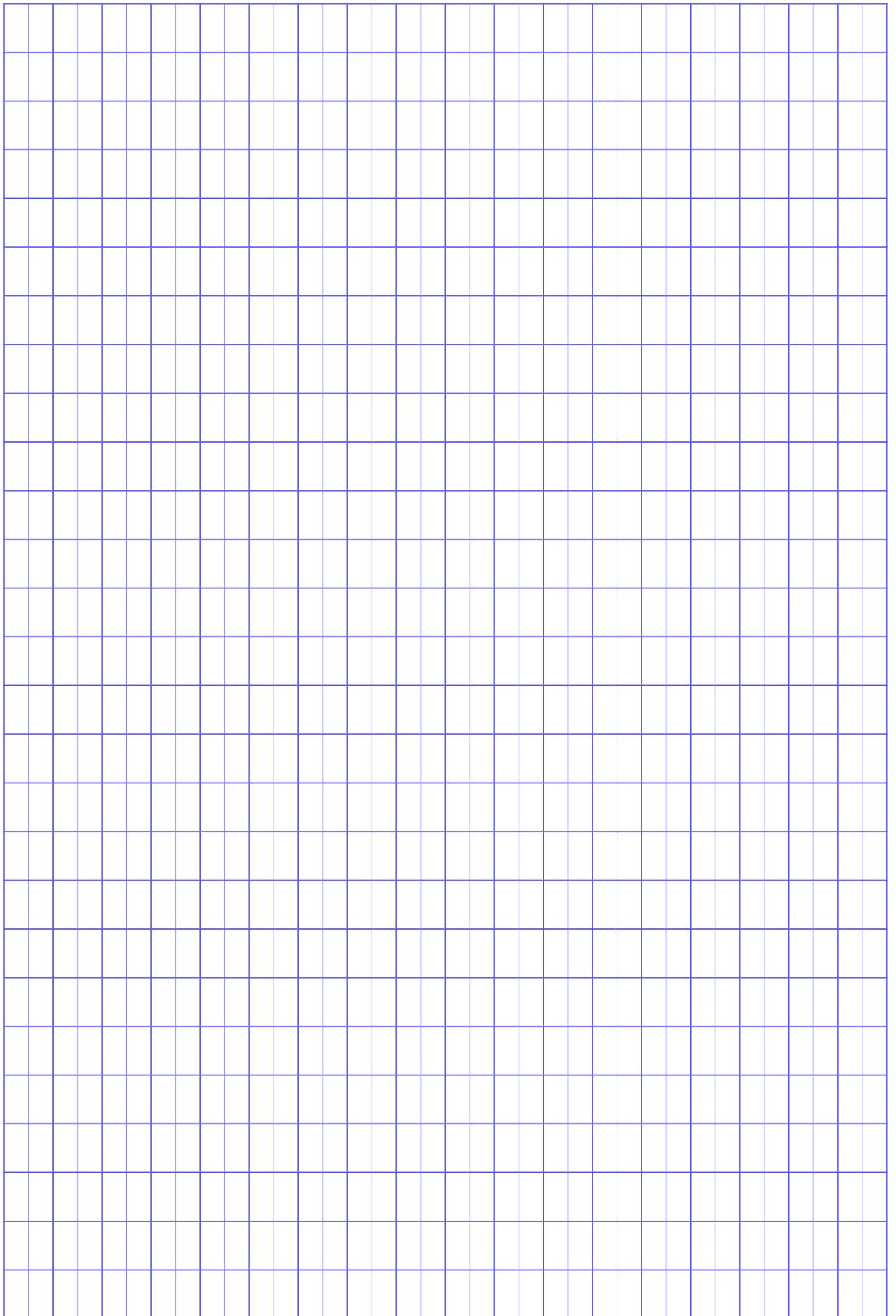
The pre-generated PDFs below all use a 3:2 ratio.

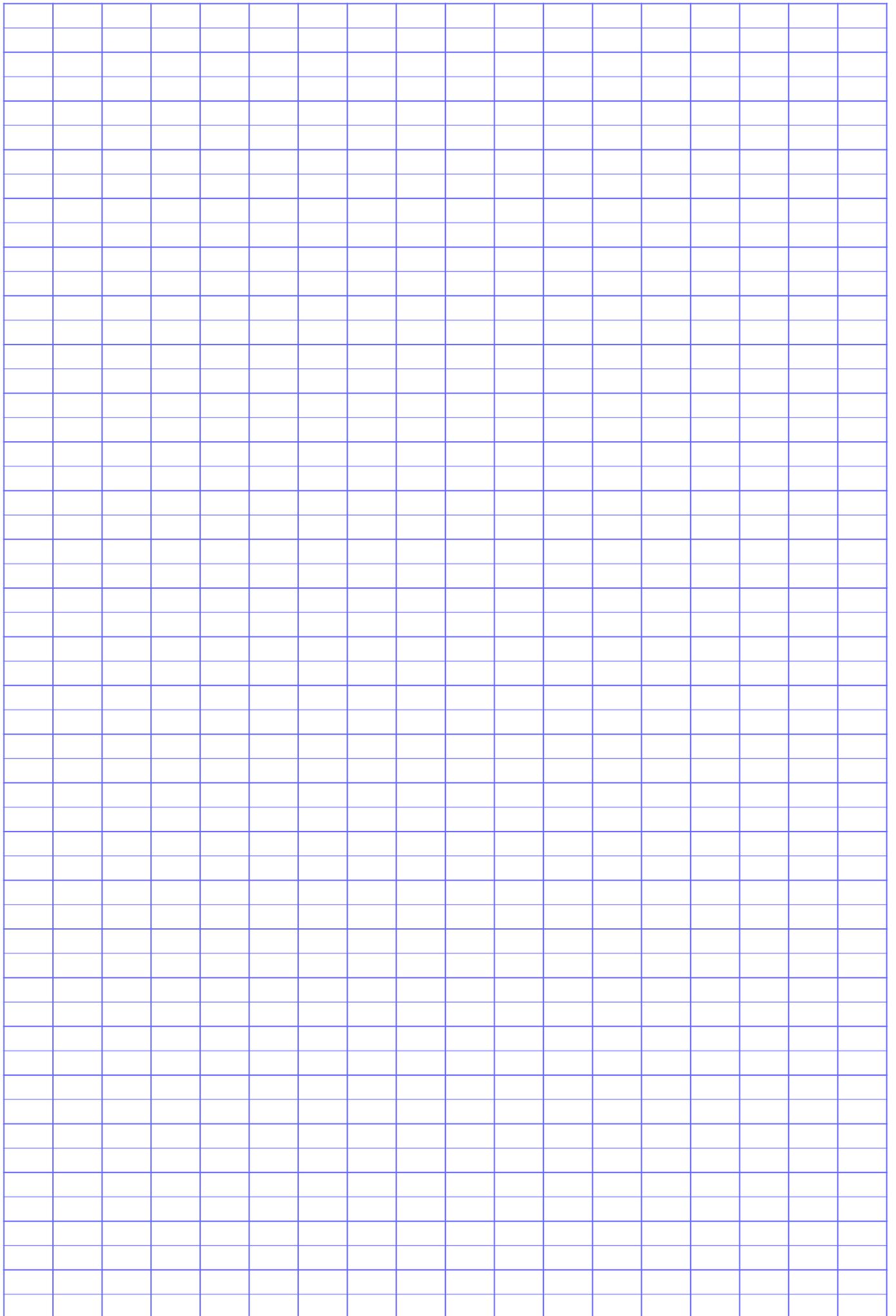
- [8 lines by 12 lines.](#) Black
- [6 lines by 9 lines.](#) Black
- [4 lines by 6 lines.](#) Black
- [4 lines by 6 lines Accented in 6x6 blocks.](#) Black

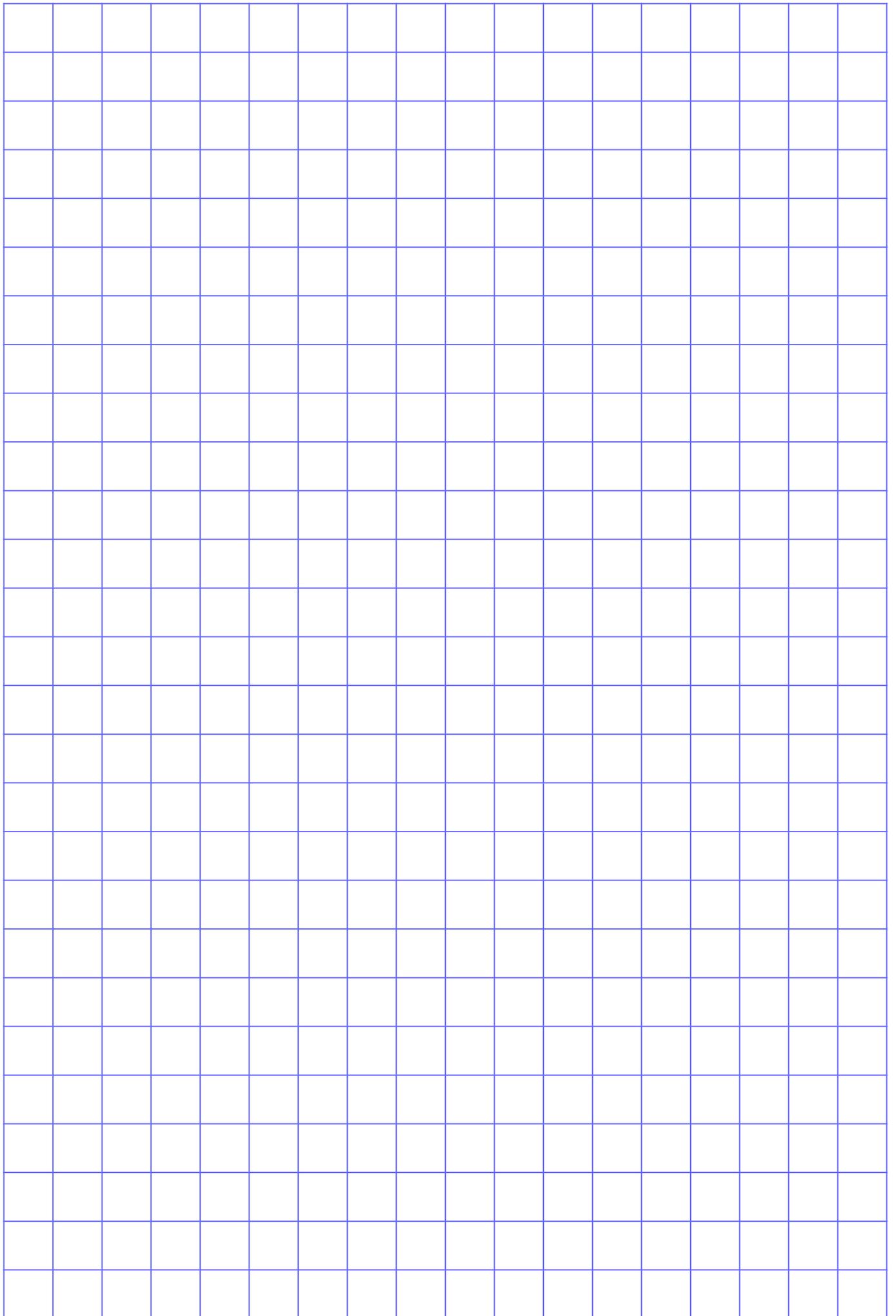
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Set document units to: **Centimeters** or **Inches**

PDF Document Size:	8.5 x 11 inches 11 x 17 inches A4 (21 x 29.7cm) A3 (29.7 x 42cm) other... x	
Minimum Border:		
Line Weight:	points (0.05 is very fine; 0.5 is average; 10 is very very large)	This generator makes this type of Graph Paper
Trapezoid Side Length:		

**Triangle
Colour:**

Red: **Black**
Light
Grey
Light
Blue

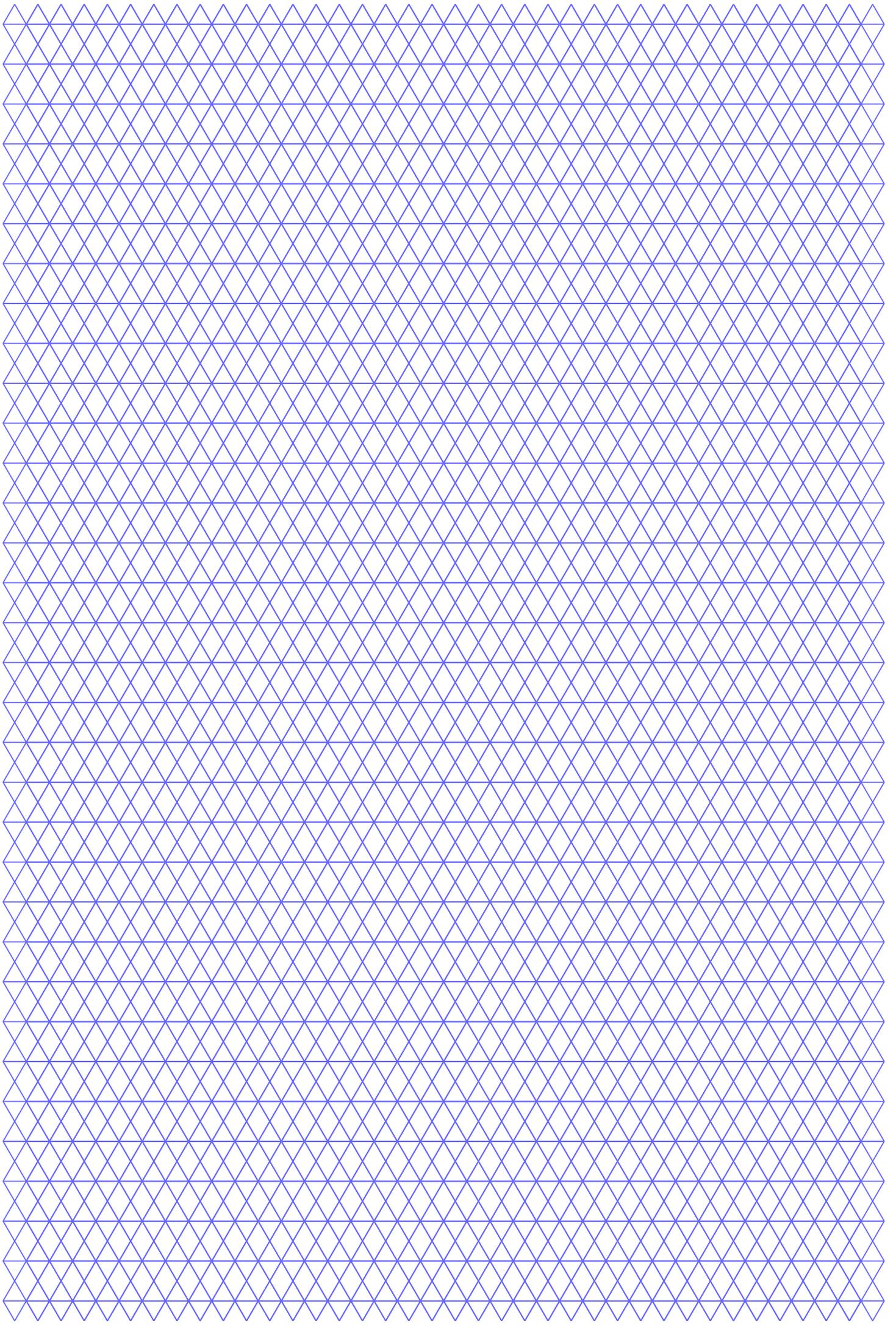
Green: **Blue**

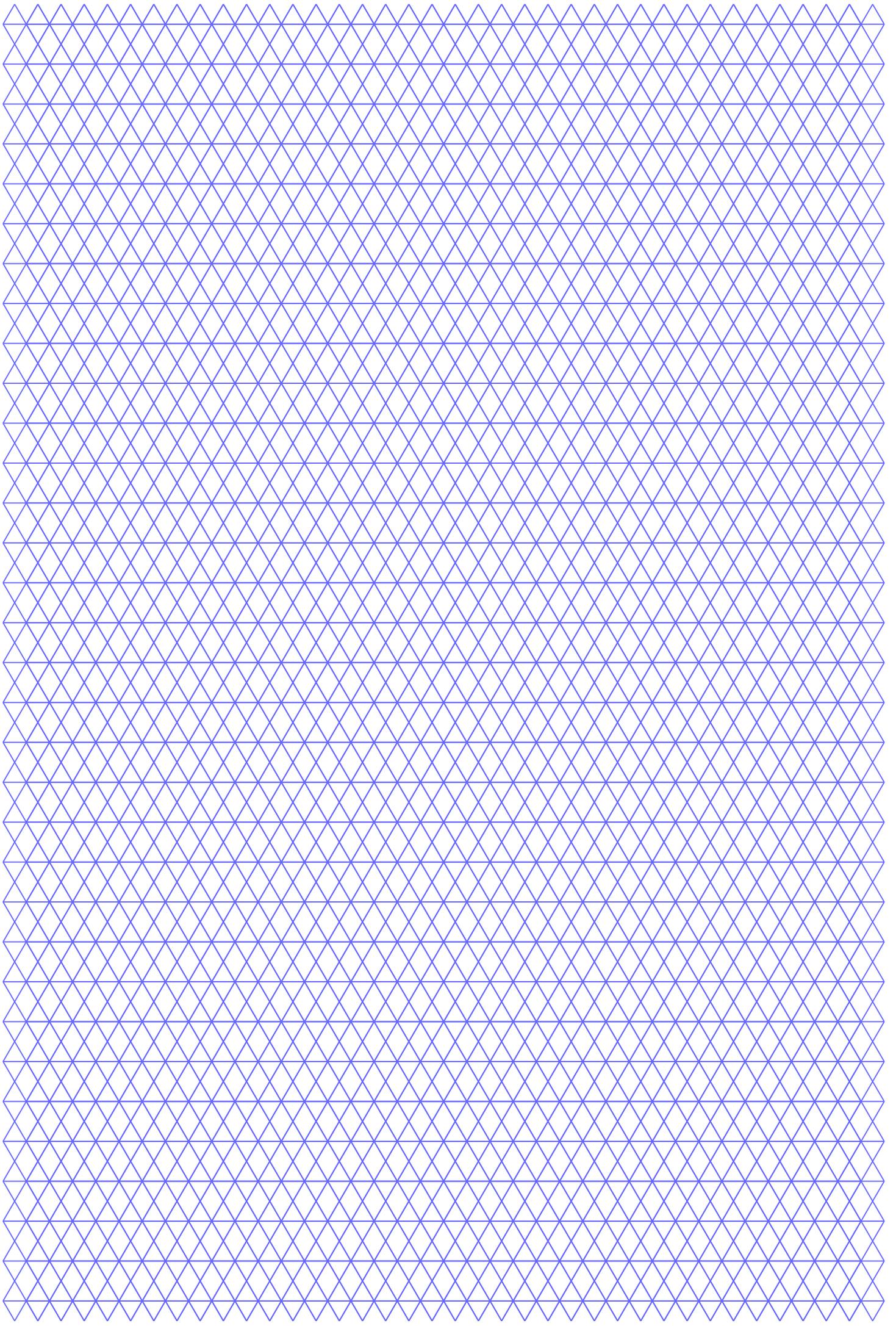
Blue: **Red**
Blue
Green

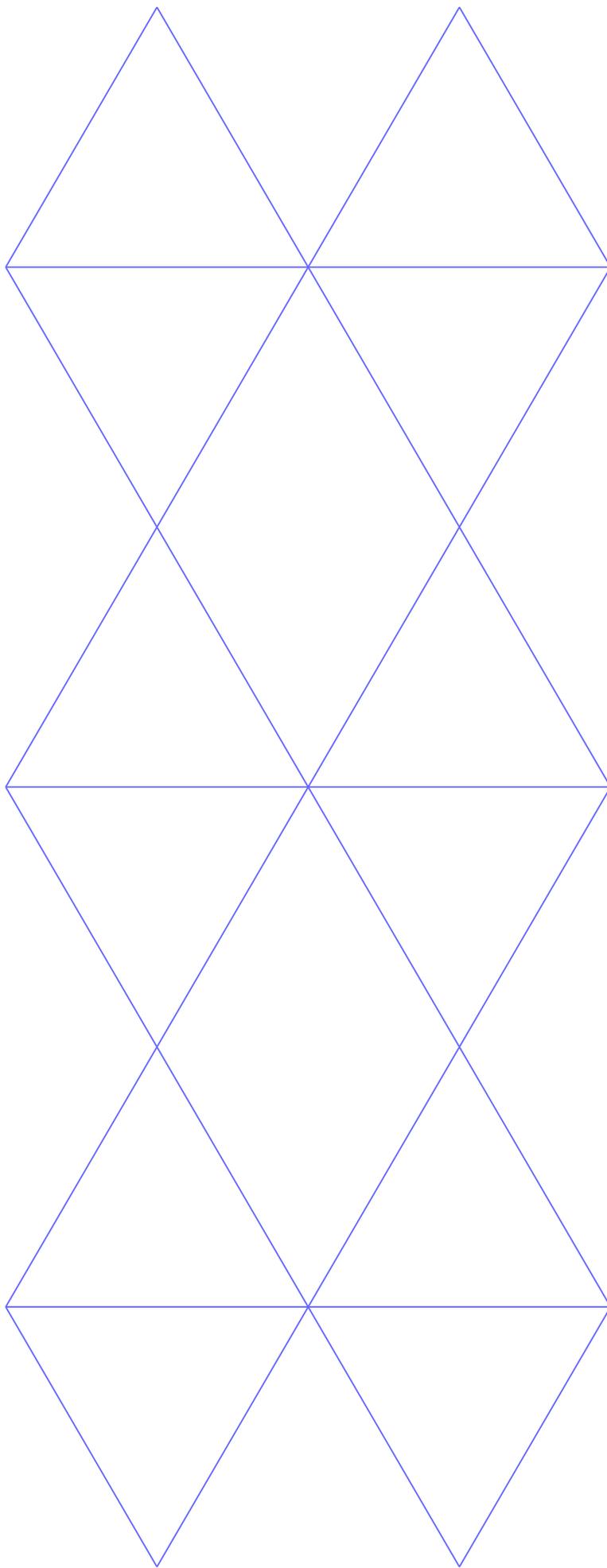
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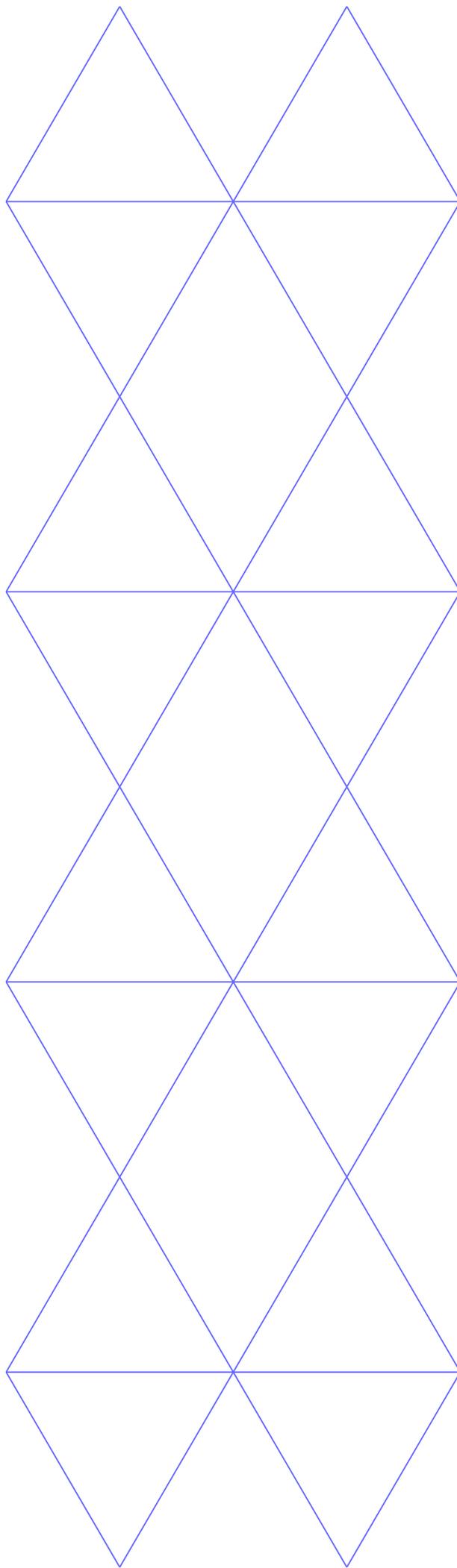
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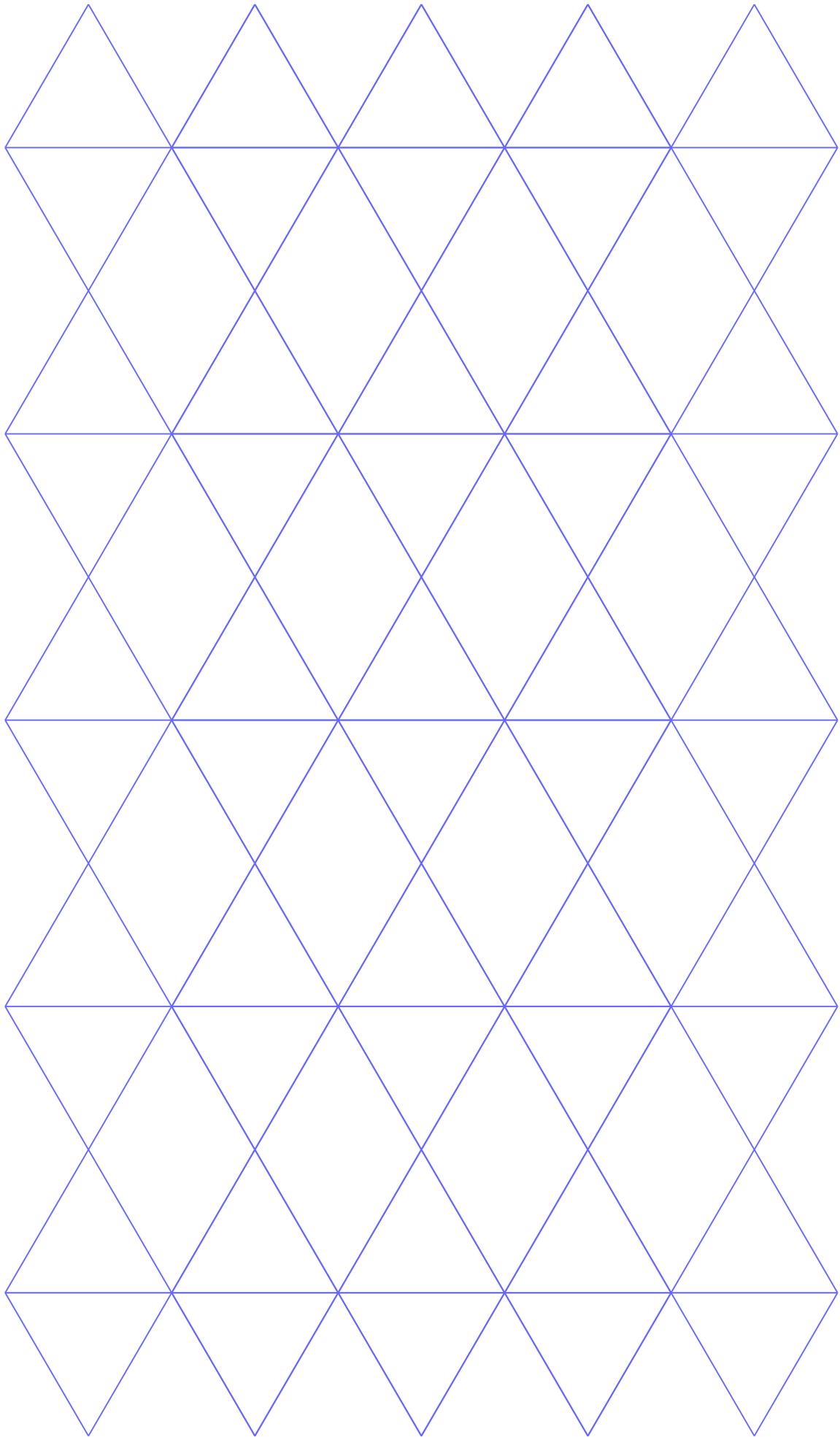
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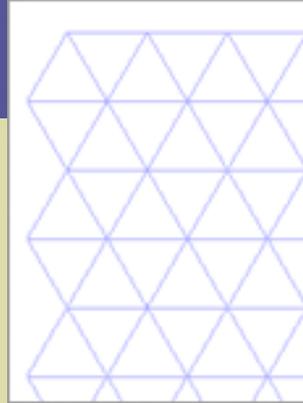
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This generator makes this type of Graph Paper

PDF Document Size:
8.5 x 11 inches
11 x 17 inches
A4 (21 x 29.7cm)
A3 (29.7 x 42cm)
other... x

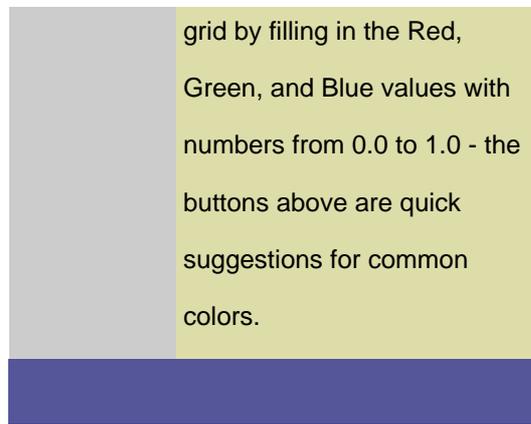
Minimum Border:

Line Weight:
points
(0.05 is very fine; 0.5 is average; 10 is very very large)

Triangle Side Length:

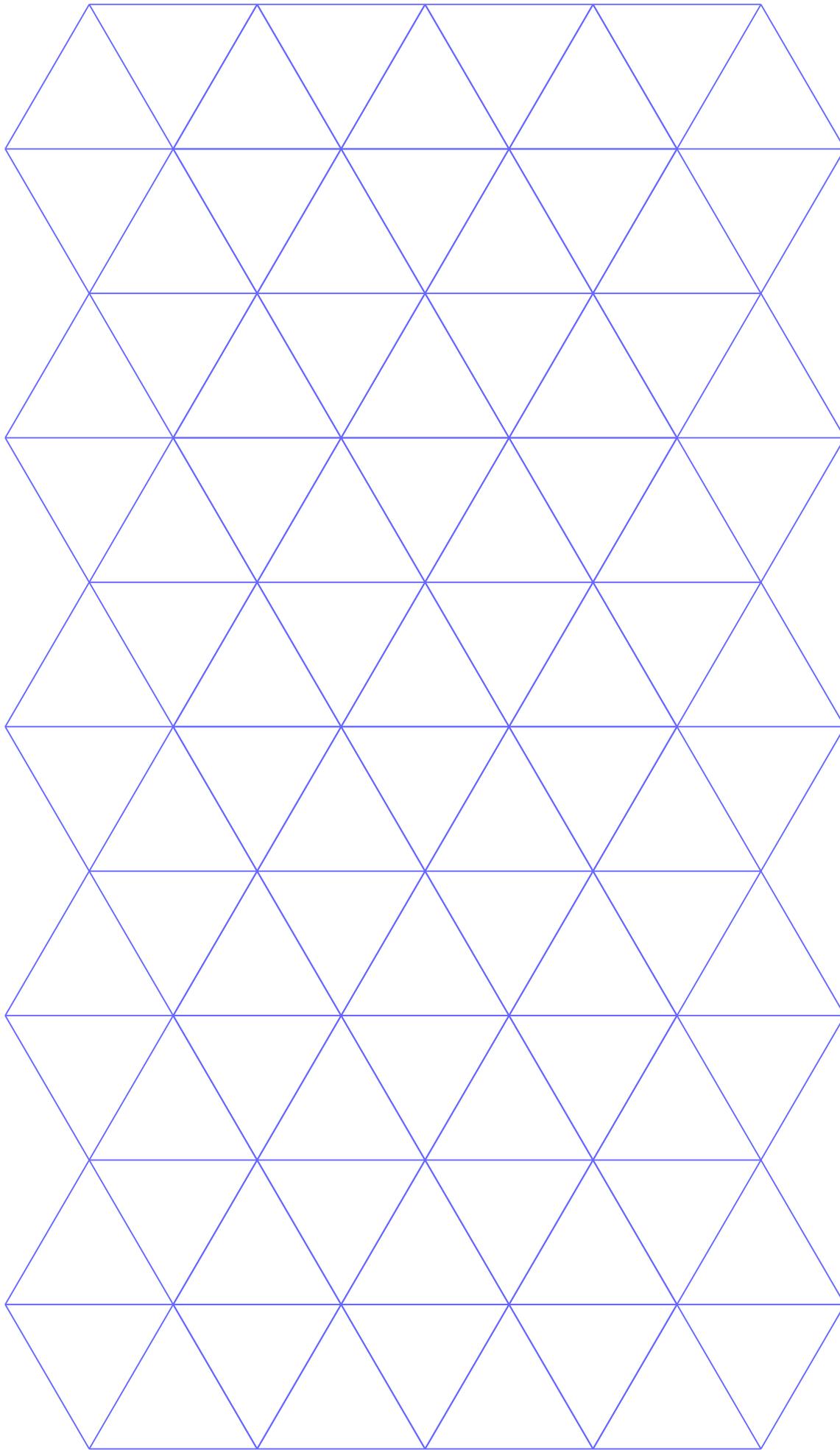
Triangle Colour:
Black
Light
Grey
Light
Blue
Red
Blue
Green

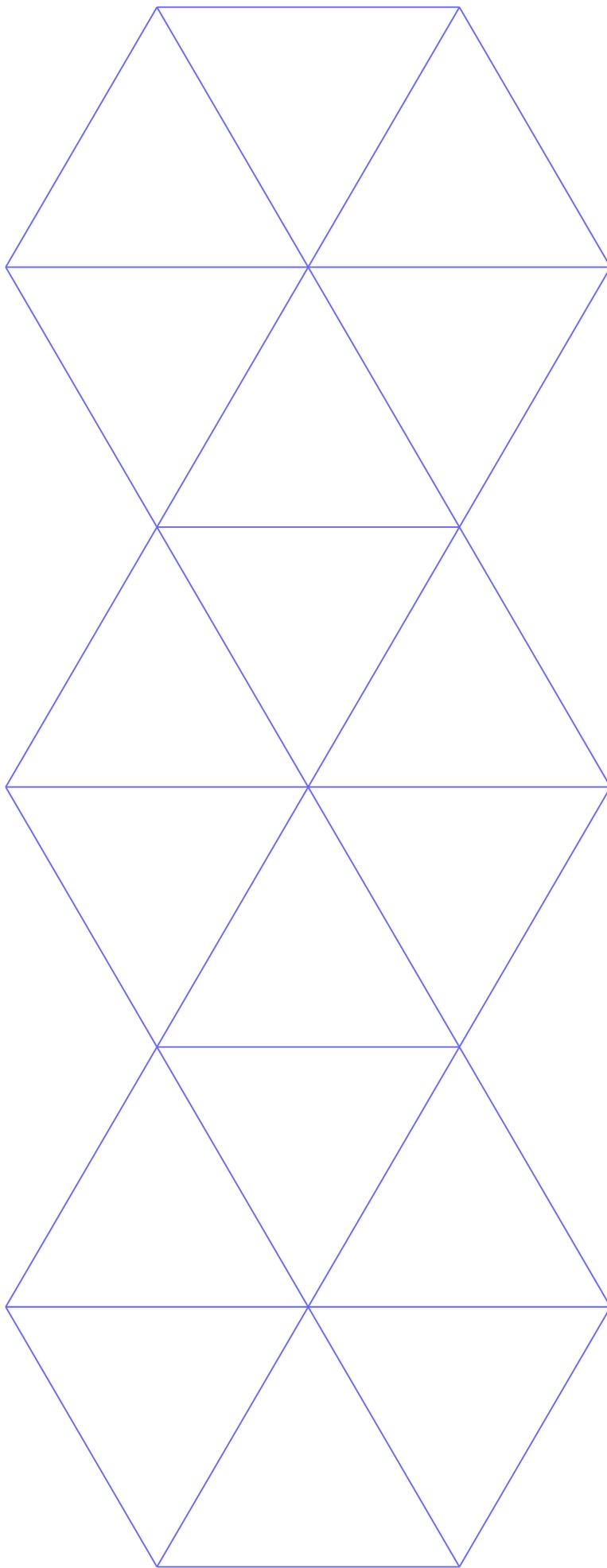
You may create any color of

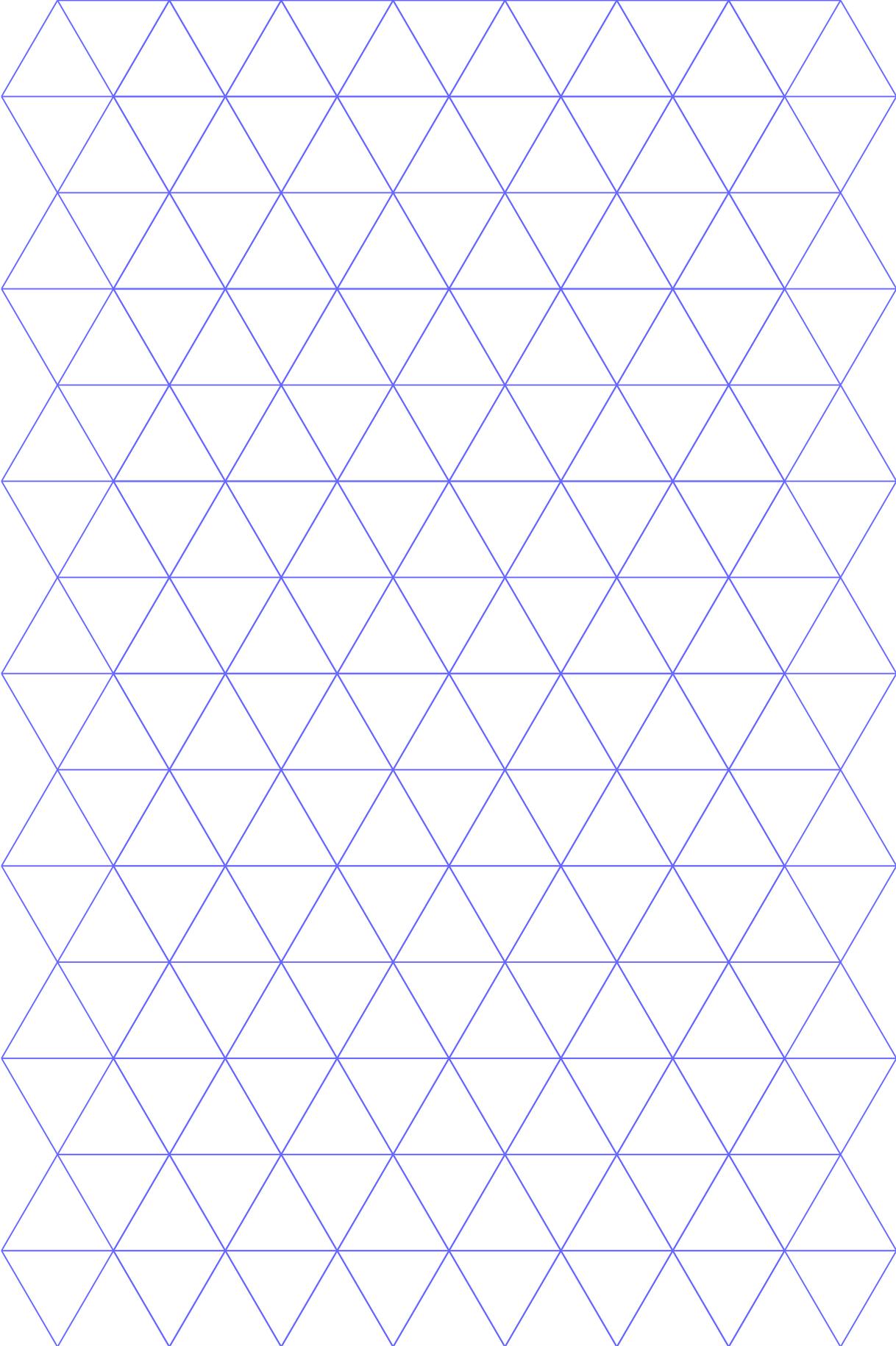


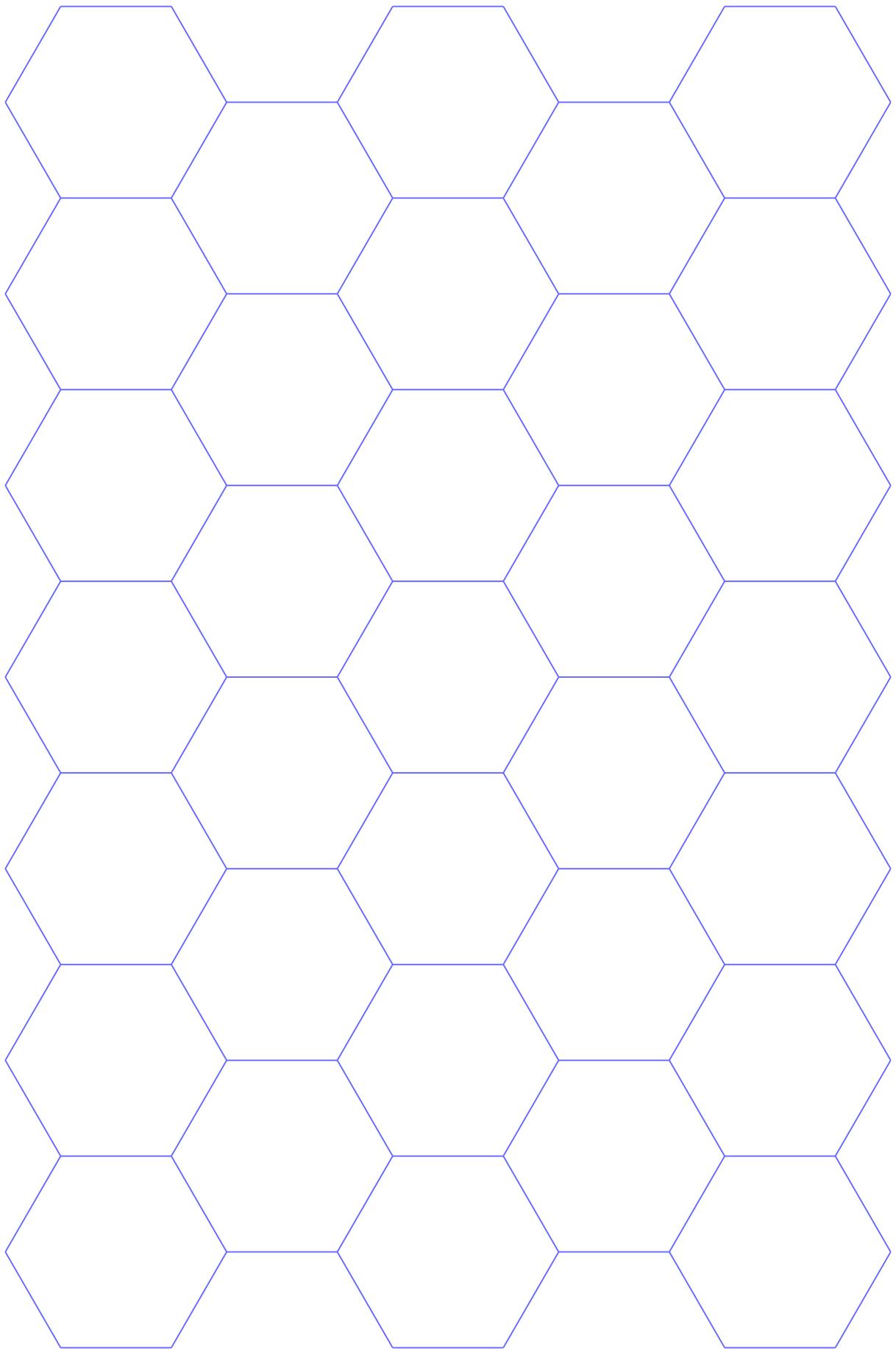
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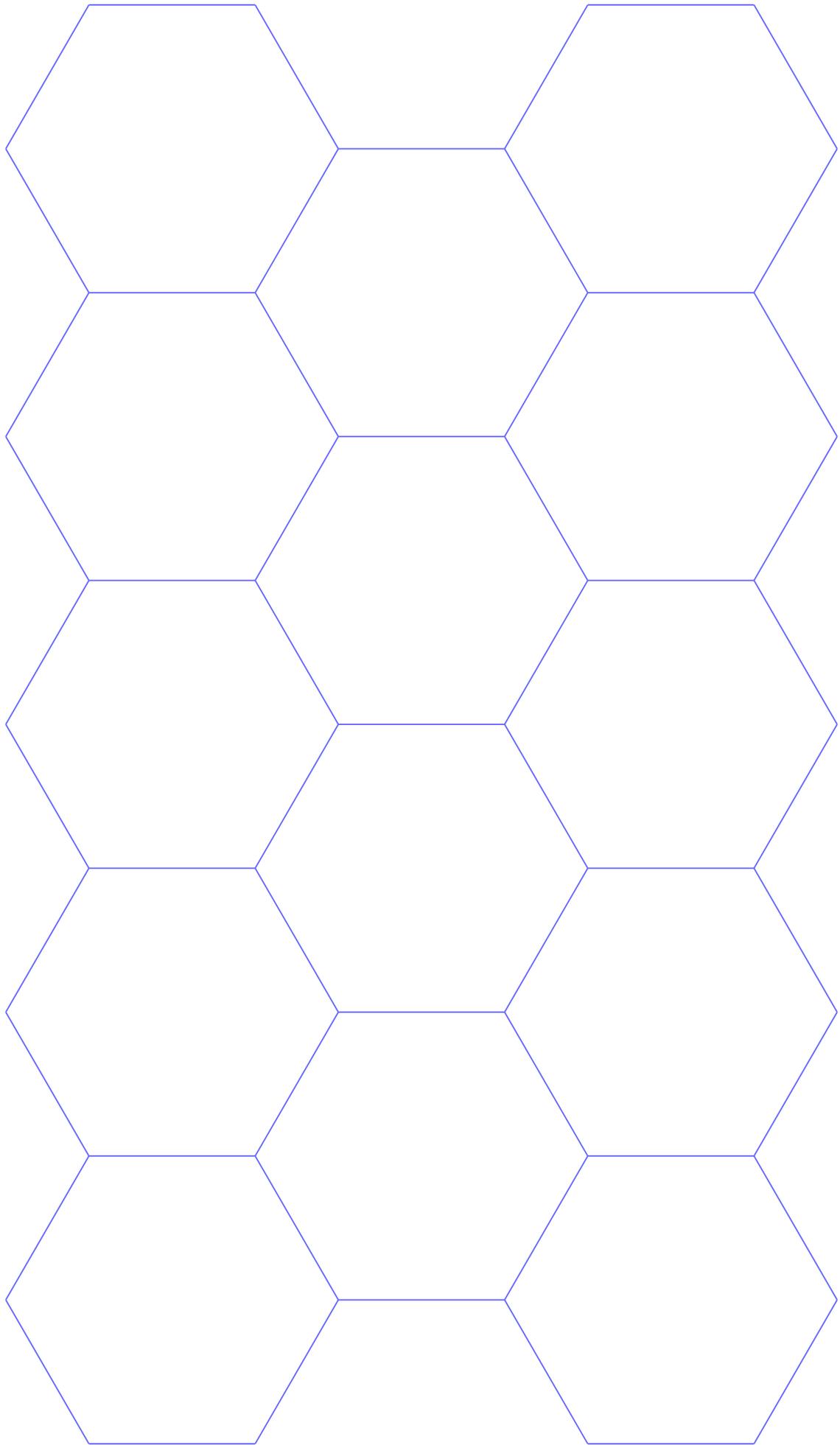
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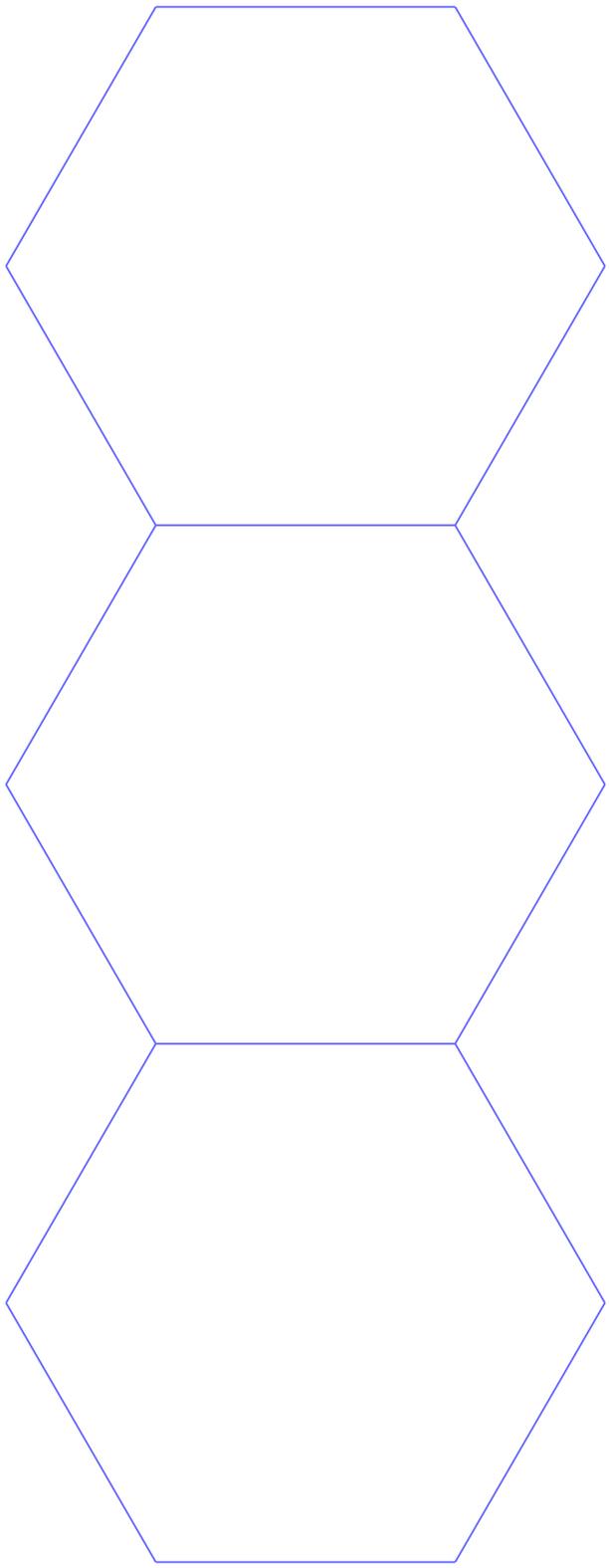


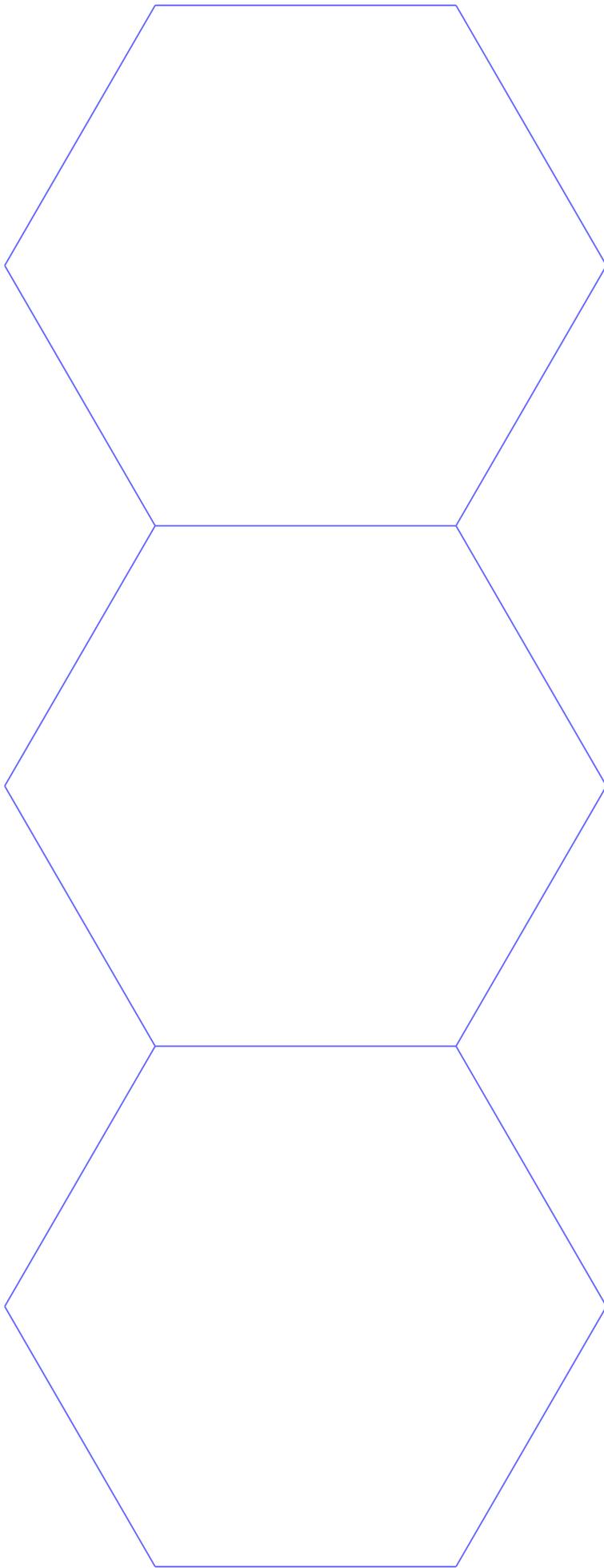












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PDF Document Size:

8.5 x 11 inches

11 x 17 inches

A4 (21 x 29.7cm)

A3 (29.7 x 42cm)

other... x

Minimum Border:

Line Weight:

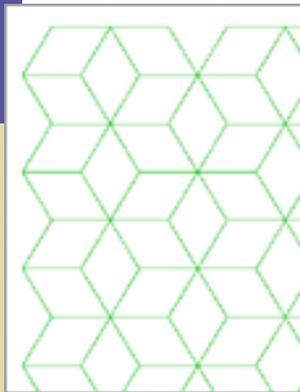
points
(0.05 is very fine; 0.5 is average; 10 is very very large)

Block side Length:

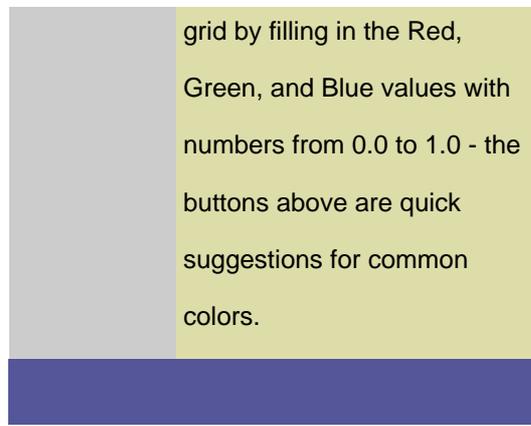
Line Colour:

- Black
- Light
- Grey
- Light
- Blue
- Blue:
- Red
- Blue
- Green

You may create any color of

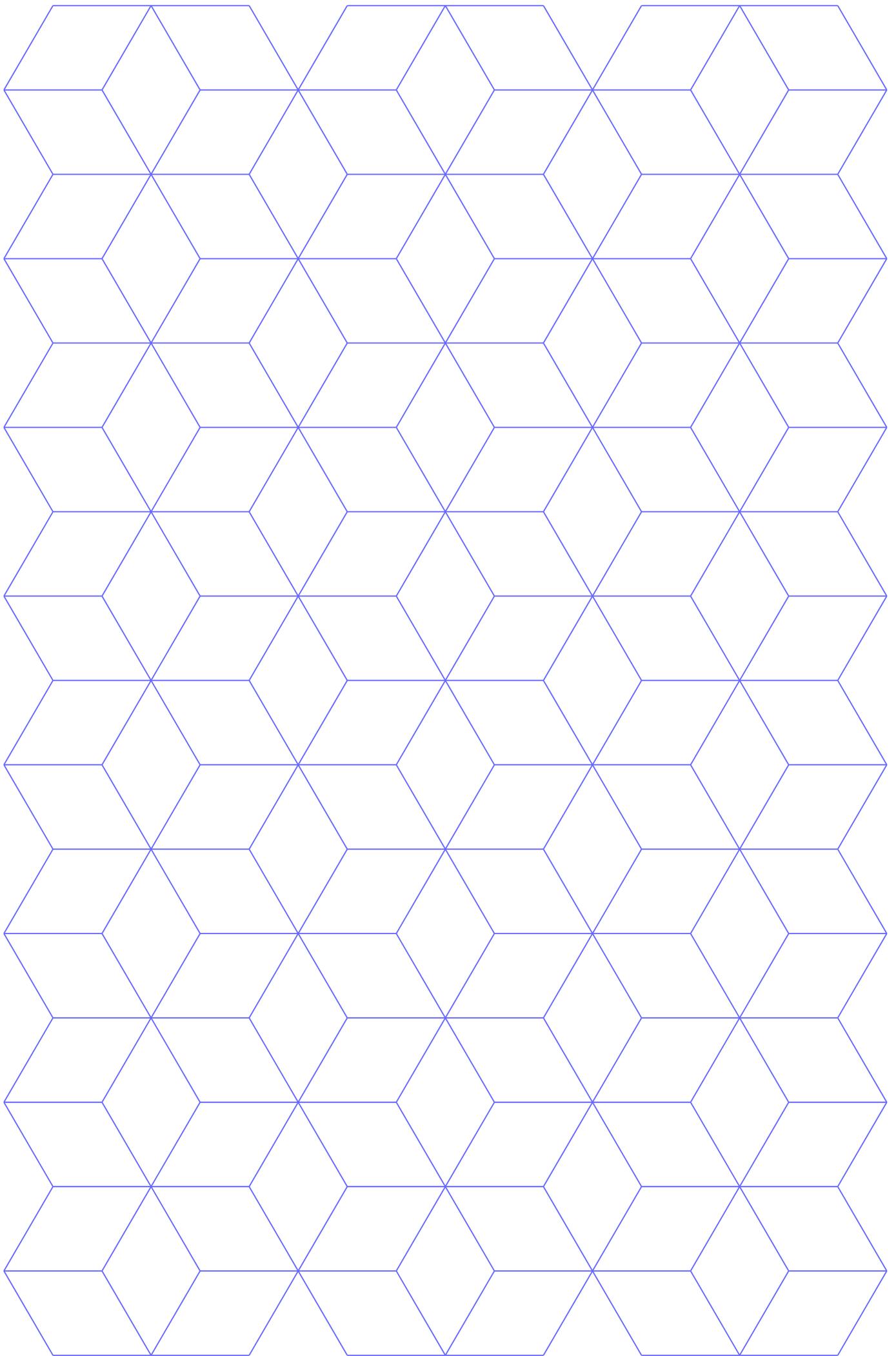


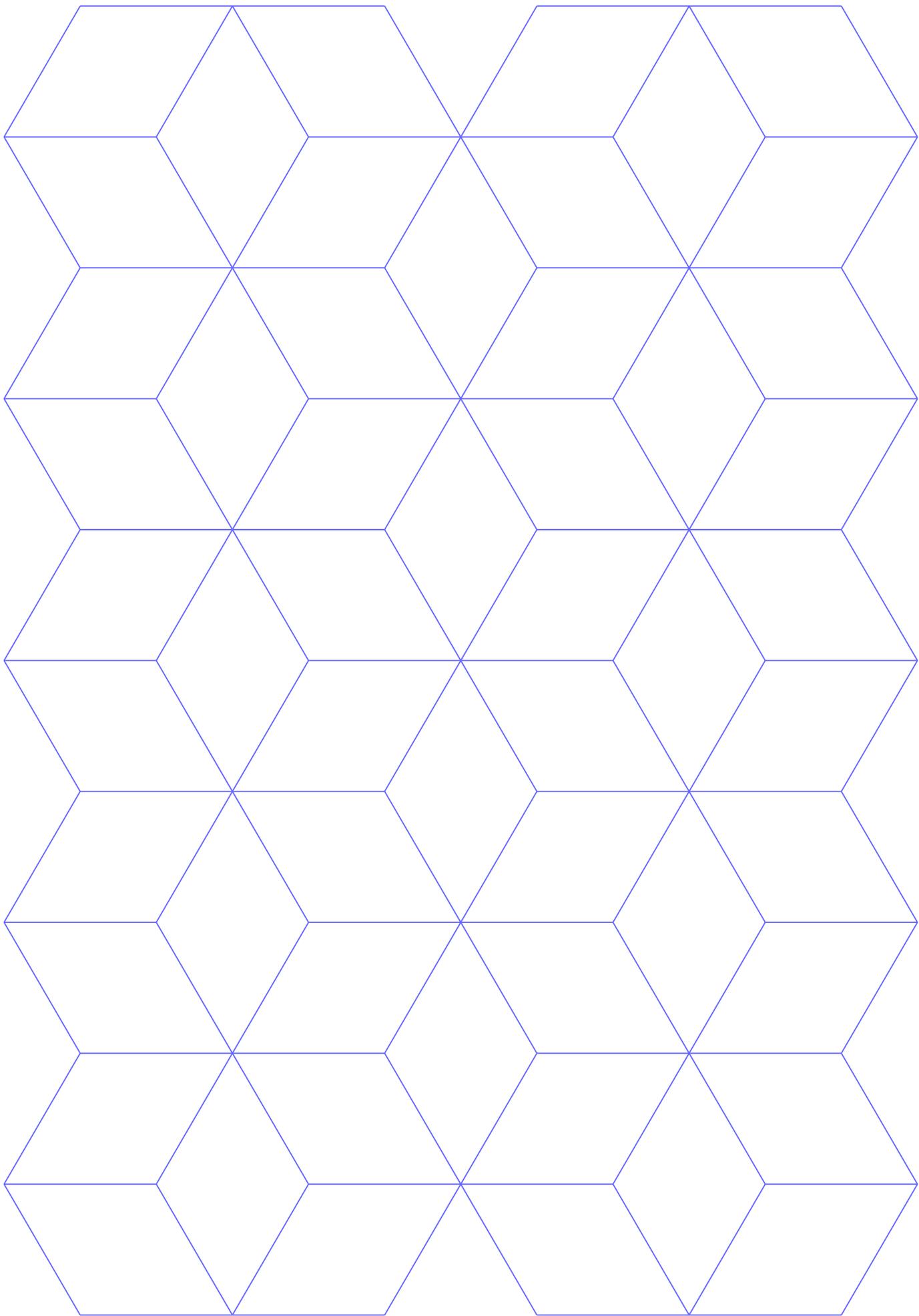
This generator makes this type of Graph Paper

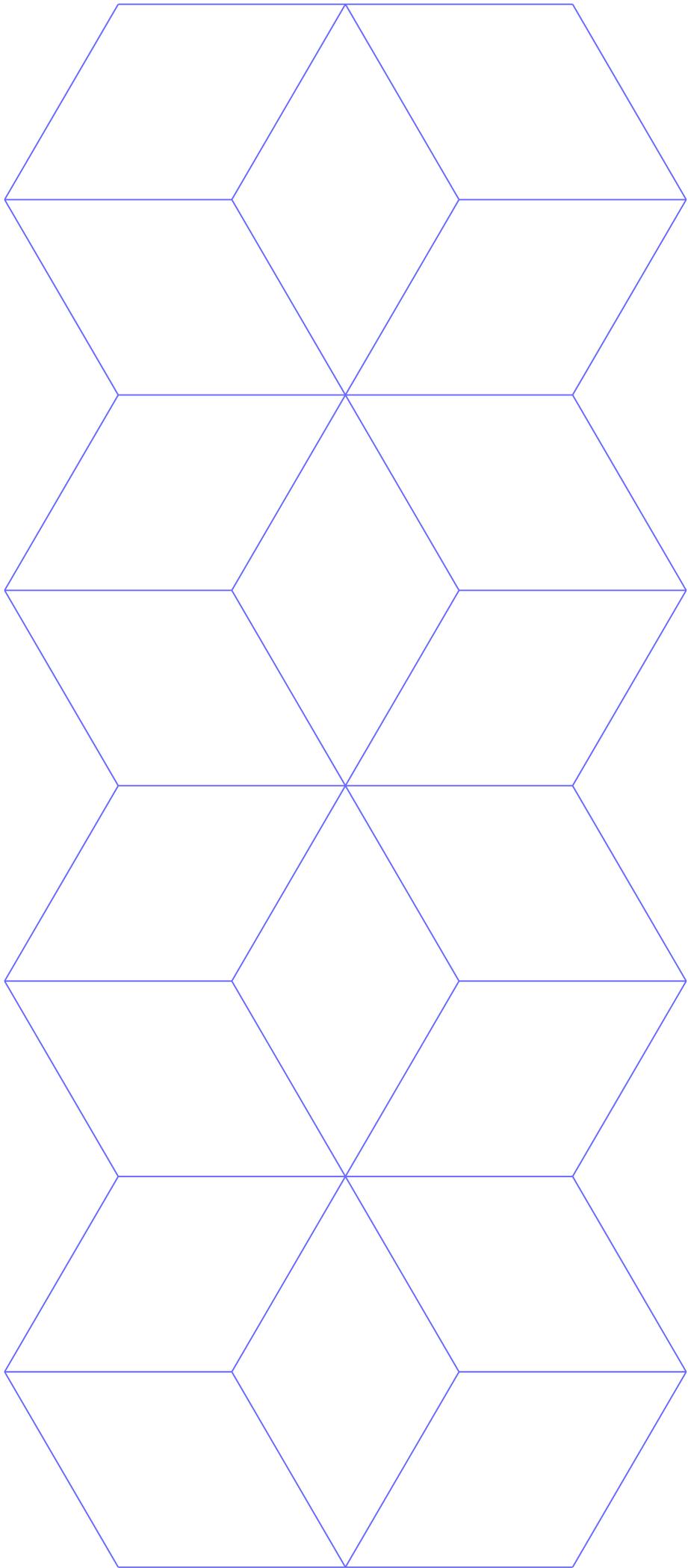


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Music Notation PDF Staff Generator

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Minimum Border: This generator makes this type of Lined Paper

Line Weight: points (0.05 is very fine; 0.5 is average; 20 is very very wide)

Staves per Page:

Lines per staff:

Interstaff spacing (lines):

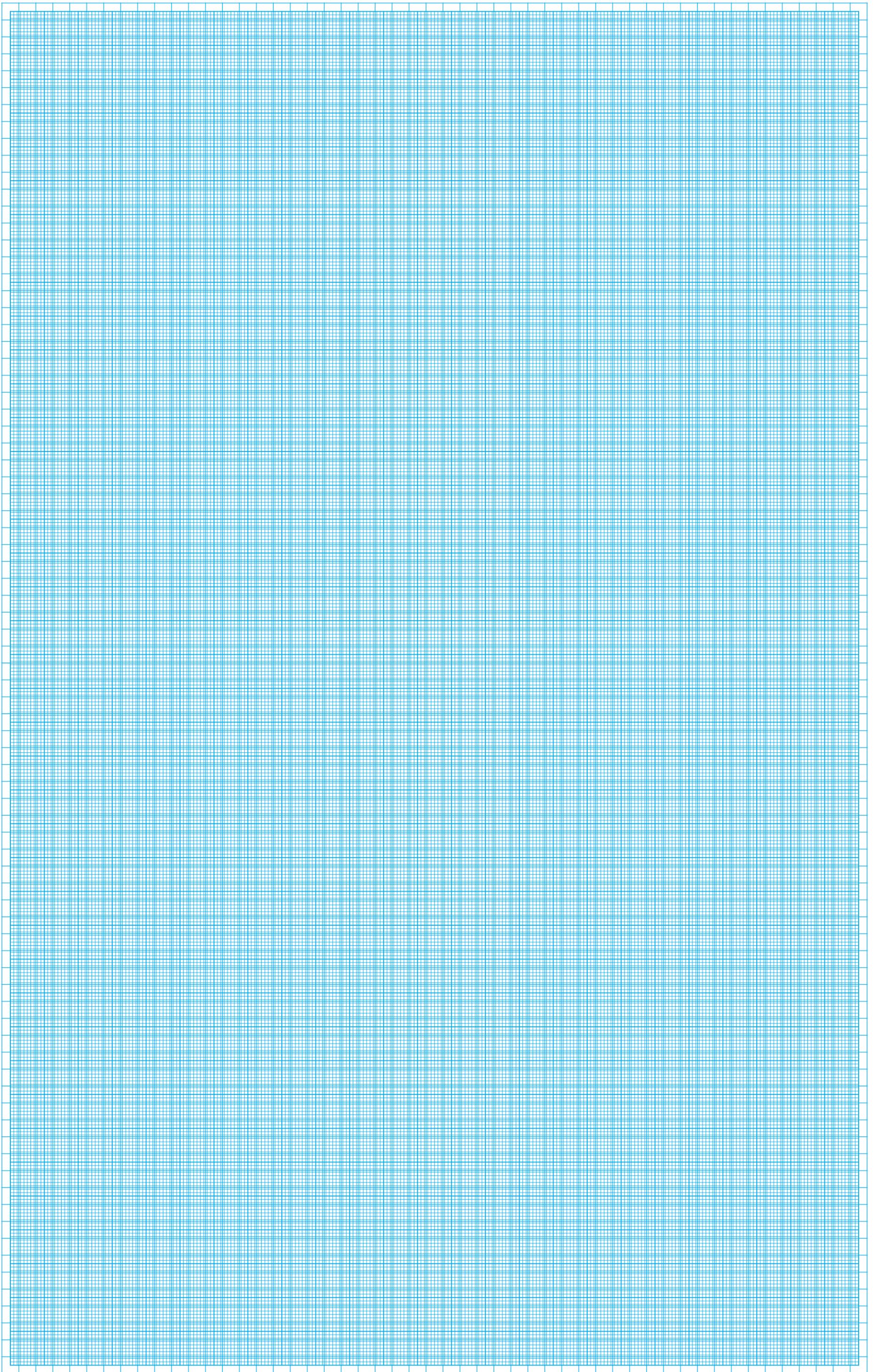
Include Extra Space on Top:

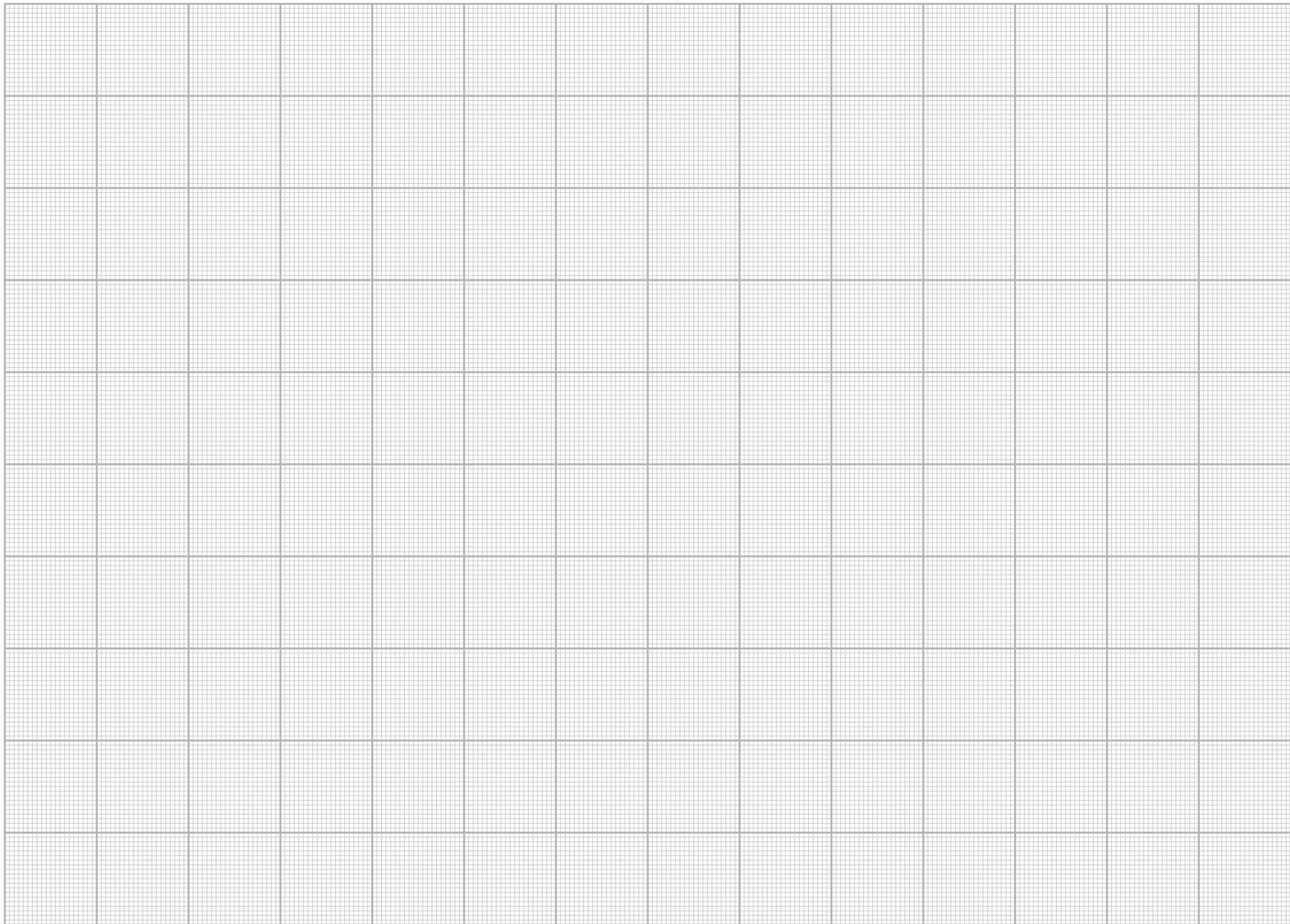


Line Colour:		Black
		Light
	Red:	Grey
	Green:	Light
	Blue:	Blue
		Red
	Blue	
	Green	

You may create any color of grid by filling in the Red, Green, and Blue values with numbers from 0.0 to 1.0 - the buttons above are quick suggestions for common colors.







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- [14, 15, 16](#)
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Sample Size=2

O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.05130	0.10557	0.16334	0.22540	0.29289	0.36754	0.45228	0.55279	0.68377
2	0.31623	0.44721	0.54772	0.63246	0.70711	0.77460	0.83666	0.89443	0.94868

Sample Size=3

O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.03450	0.07170	0.11210	0.15657	0.20630	0.26319	0.33057	0.41520	0.53584
2	0.19580	0.28714	0.36326	0.43293	0.50000	0.56707	0.63674	0.71286	0.80420
3	0.46416	0.58480	0.66943	0.73681	0.79370	0.84343	0.88790	0.92832	0.96549

Sample Size=4

O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.02600	0.05430	0.08530	0.11989	0.15910	0.20473	0.25992	0.33126	0.43766
2	0.14256	0.21232	0.27238	0.32917	0.38573	0.44450	0.50841	0.58245	0.67954
3	0.32046	0.41755	0.49159	0.55550	0.61427	0.67083	0.72762	0.78768	0.85744
4	0.56234	0.66874	0.74008	0.79527	0.84090	0.88011	0.91469	0.94574	0.97400

Sample Size=5

O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.02090	0.04360	0.06890	0.09710	0.12945	0.16745	0.21400	0.27522	0.36904
2	0.11223	0.16861	0.21803	0.26557	0.31381	0.36499	0.42201	0.49019	0.58389
3	0.24664	0.32660	0.39000	0.44600	0.50000	0.55400	0.61018	0.67300	0.75336
4	0.41611	0.50981	0.57800	0.63500	0.68619	0.73443	0.78197	0.83139	0.88776
5	0.63096	0.72478	0.78600	0.83255	0.87055	0.90288	0.93115	0.95635	0.97915

Sample Size=6

O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.01741	0.03651	0.05770	0.08160	0.10910	0.14163	0.18181	0.23528	0.31871
2	0.09260	0.13988	0.18180	0.22258	0.26445	0.30944	0.36036	0.42245	0.51032
3	0.20091	0.26865	0.32332	0.37308	0.42141	0.47078	0.52394	0.58539	0.66681
4	0.33319	0.41461	0.47606	0.52922	0.57859	0.62692	0.67668	0.73135	0.79909
5	0.48968	0.57755	0.63964	0.69056	0.73555	0.77742	0.81820	0.86012	0.90740
6	0.68129	0.76472	0.81819	0.85837	0.89090	0.91839	0.94229	0.96349	0.98259

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To read the Median Rank (50%) of the 10th failure from a sample of 25 units:

1. Select the appropriate sample size table (*i.e.* 25).
2. Read the value for the appropriate Order Number (*i.e.* O/N = 10) from the 50% column, as highlighted in yellow below: 0.38161 or 38.161%.
3. For Ranks other than Median Ranks (other than 50%), use the appropriate percentage column.

Sample Size=25									
O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.00421	0.00889	0.01420	0.02020	0.02730	0.03600	0.04700	0.06230	0.08799
2	0.02150	0.03310	0.04380	0.05460	0.06620	0.07926	0.09480	0.11509	0.14687
.
8	0.19625	0.23032	0.25657	0.28001	0.30270	0.32604	0.35166	0.38235	0.42582
9	0.23032	0.26656	0.29418	0.31865	0.34215	0.36619	0.39240	0.42357	0.46734
10	0.26529	0.30341	0.33217	0.35747	0.38161	0.40616	0.43276	0.46419	0.50795
11	0.30111	0.34082	0.37052	0.39646	0.42108	0.44596	0.47277	0.50424	0.54772
12	0.33774	0.37878	0.40921	0.43562	0.46054	0.48559	0.51244	0.54375	0.58668
.
24	0.85313	0.88491	0.90520	0.92074	0.93377	0.94535	0.95619	0.96690	0.97852
25	0.91201	0.93765	0.95298	0.96401	0.97265	0.97977	0.98583	0.99111	0.99579

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[\[21-22\]](#)
[\[23-24\]](#)
[\[25\]](#)

Sample Size=21									
O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.00500	0.01060	0.01680	0.02400	0.03250	0.04270	0.05570	0.07380	0.10385
2	0.02560	0.03940	0.05210	0.06500	0.07860	0.09400	0.11224	0.13597	0.17293
3	0.05370	0.07400	0.09140	0.10810	0.12531	0.14401	0.16562	0.19291	0.23405
4	0.08580	0.11136	0.13246	0.15222	0.17209	0.19327	0.21730	0.24709	0.29102
5	0.12062	0.15066	0.17478	0.19695	0.21891	0.24199	0.26783	0.29941	0.34522
6	0.15755	0.19138	0.21800	0.24213	0.26574	0.29029	0.31747	0.35033	0.39733
7	0.19619	0.23326	0.26197	0.28767	0.31258	0.33824	0.36640	0.40009	0.44771
8	0.23632	0.27615	0.30657	0.33353	0.35943	0.38590	0.41470	0.44886	0.49661
9	0.27779	0.31994	0.35174	0.37967	0.40629	0.43328	0.46244	0.49674	0.54416
10	0.32051	0.36457	0.39743	0.42606	0.45314	0.48041	0.50965	0.54377	0.59046
11	0.36443	0.41000	0.44364	0.47271	0.50000	0.52730	0.55636	0.59000	0.63557
12	0.40954	0.45623	0.49035	0.51959	0.54686	0.57394	0.60256	0.63543	0.67949
13	0.45584	0.50327	0.53756	0.56672	0.59371	0.62033	0.64826	0.68006	0.72221
14	0.50339	0.55114	0.58530	0.61410	0.64057	0.66647	0.69343	0.72385	0.76368
15	0.55229	0.59991	0.63360	0.66176	0.68742	0.71233	0.73803	0.76674	0.80381
16	0.60267	0.64967	0.68253	0.70971	0.73426	0.75787	0.78200	0.80862	0.84245
17	0.65478	0.70059	0.73217	0.75801	0.78109	0.80305	0.82522	0.84934	0.87938
18	0.70898	0.75291	0.78270	0.80673	0.82791	0.84778	0.86754	0.88864	0.91423
19	0.76595	0.80709	0.83438	0.85599	0.87469	0.89190	0.90864	0.92604	0.94633
20	0.82706	0.86403	0.88776	0.90602	0.92136	0.93503	0.94786	0.96057	0.97438
21	0.89615	0.92622	0.94428	0.95731	0.96753	0.97597	0.98316	0.98943	0.99500

Sample Size=22									
O/N	10%	20%	30%	40%	50%	60%	70%	80%	90%
1	0.00478	0.01010	0.01610	0.02300	0.03100	0.04080	0.05330	0.07050	0.09940
2	0.02440	0.03760	0.04980	0.06200	0.07510	0.08980	0.10730	0.13007	0.16559
3	0.05120	0.07060	0.08720	0.10322	0.11970	0.13763	0.15837	0.18461	0.22422
4	0.08170	0.10621	0.12640	0.14532	0.16439	0.18473	0.20783	0.23652	0.27894
5	0.11490	0.14364	0.16674	0.18801	0.20911	0.23131	0.25620	0.28669	0.33104
6	0.15002	0.18241	0.20795	0.23112	0.25384	0.27750	0.30375	0.33555	0.38117
7	0.18674	0.22227	0.24984	0.27458	0.29859	0.32338	0.35063	0.38333	0.42970
8	0.22483	0.26305	0.29232	0.31832	0.34335	0.36897	0.39693	0.43018	0.47684
9	0.26416	0.30467	0.33532	0.36232	0.38810	0.41431	0.44271	0.47621	0.52275
10	0.30463	0.34706	0.37881	0.40655	0.43286	0.45943	0.48801	0.52147	0.56752
11	0.34619	0.39017	0.42276	0.45101	0.47762	0.50432	0.53285	0.56601	0.61119
12	0.38881	0.43399	0.46715	0.49568	0.52238	0.54899	0.57724	0.60983	0.65381
13	0.43248	0.47853	0.51199	0.54057	0.56714	0.59345	0.62119	0.65294	0.69537
14	0.47725	0.52379	0.55729	0.58569	0.61190	0.63768	0.66468	0.69533	0.73584
15	0.52316	0.56982	0.60307	0.63103	0.65665	0.68168	0.70768	0.73695	0.77517
16	0.57030	0.61667	0.64937	0.67662	0.70141	0.72542	0.75016	0.77773	0.81326
17	0.61883	0.66445	0.69625	0.72250	0.74616	0.76888	0.79205	0.81759	0.84998
18	0.66896	0.71331	0.74380	0.76869	0.79089	0.81199	0.83326	0.85636	0.88510
19	0.72106	0.76348	0.79217	0.81527	0.83561	0.85467	0.87360	0.89379	0.91825
20	0.77578	0.81539	0.84163	0.86237	0.88030	0.89678	0.91280	0.92944	0.94883
21	0.83441	0.86993	0.89270	0.91019	0.92488	0.93796	0.95022	0.96237	0.97556
22	0.90063	0.92946	0.94674	0.95921	0.96898	0.97705	0.98392	0.98991	0.99522

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