

Communication protocol package definition

Lower computer (Data received by car) data protocol format

	Header0	Command bit1	separatrix2	Command bit3	separatrix4	Command bit5	separatrix6	Command bit7	separatrix8	Command bit9	separatrix10	Command bit11	separatrix12	Data bits13	separatrix14	Data bits15	separatrix16	Data bits17	separatrix18	Data bits19	tail22	remark
Stop	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
Forward	\$	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
Retreat	\$	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
turn left	\$	3	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
turn right	\$	4	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
left rotation	\$	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
right rotation	\$	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
query PID	\$	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
Restore the original PID	\$	0	1	0	1	2	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
Automatic report	\$	0	1	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	
Stop report	\$	0	1	0	1	0	1	2	1	0	1	0	1	0	1	0	1	0	1	0	1	
Angle PID update	\$	0	1	0	1	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	1	
Speed PID update	\$	0	1	0	1	0	1	0	1	0	1	1	1	0	1	0	1	0	1	0	1	
AP	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
AD	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
VP	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
VI	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
Example datas Forward	\$	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
'\$1,0,0,0,0,0,0,0#'																						
Example datas update AP AD																						
'\$0,0,0,1,0,AP23.4,AD0.45,VP0,VIB#'																						

Uplink data protocol format

	Header	Data bits1	separatrix1	Data bits2	separatrix2	Data bits3	separatrix3	Data bits4	separatrix4	Data bits5	separatrix5	Data bits6	tail
Left speed	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
Right speed	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
ACCEL add speed	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
Gyro gyroscope	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
Ultrasonic	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
Voltage	\$	LV	RV	RV	RV	AC	RV	GY	RV	CSB	VI	VI	
Example datas Left speed20.5 Right speed33.2 accelerated speed140 Gyro scope40 Ultrasonic50 Voltage12.3v													
'\$LV20.5,RV33.2,AC140,GY40,CSB50,VI12.3#'													

Lower computer data protocol format:

'\$0,0,0,0,0,0,0,0#'

Floating point string

Uplink data protocol format:

'\$LVx,RVx,ACx,GYx,CSBx,VIx#'

Floating point string

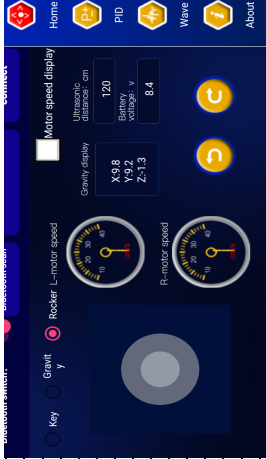
Notes: Upper computer data is sent and received in string format. When compiling the lower computer (car) program, it needs to convert between Numbers and strings before it can be used.

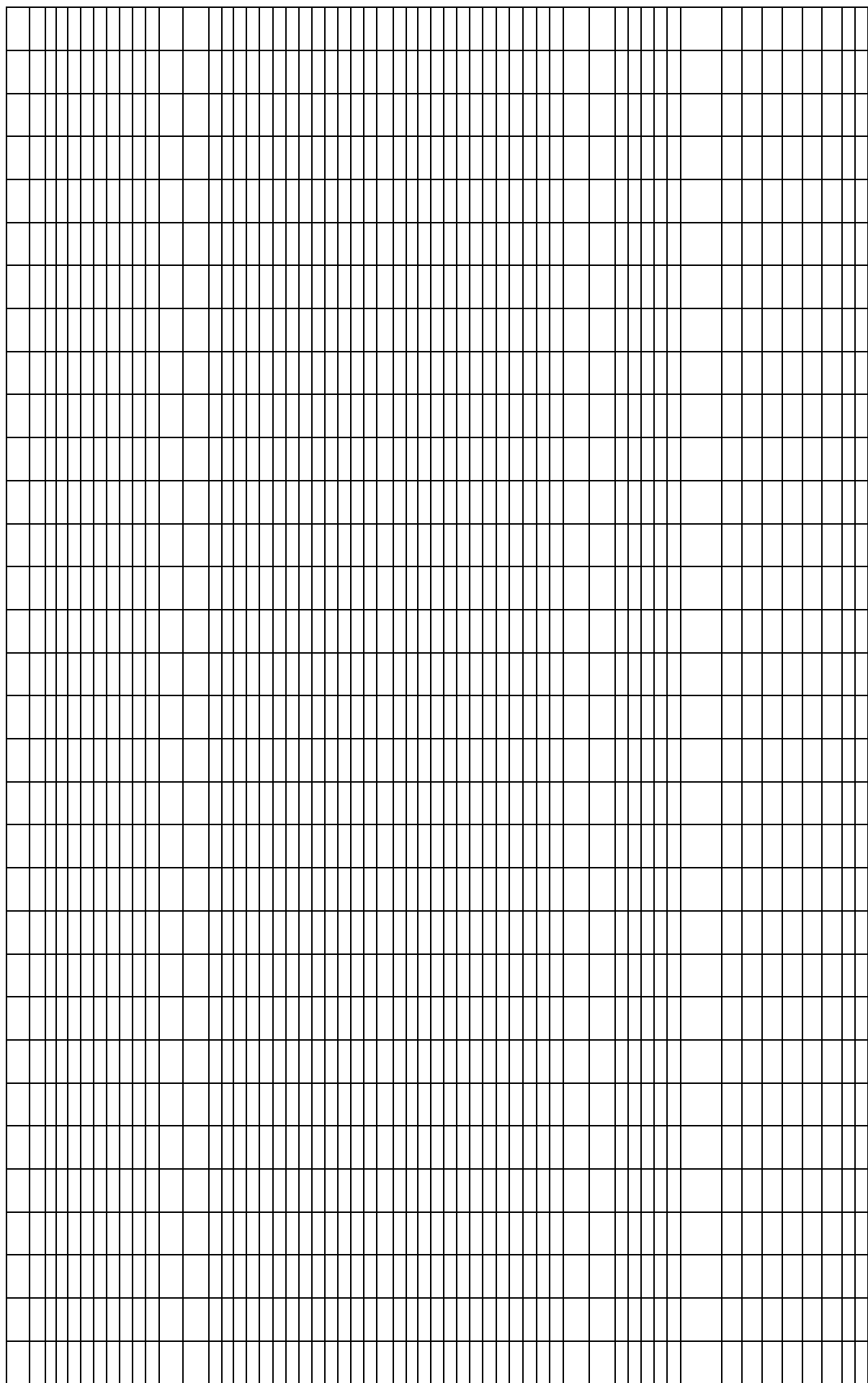
Uplink data protocol format

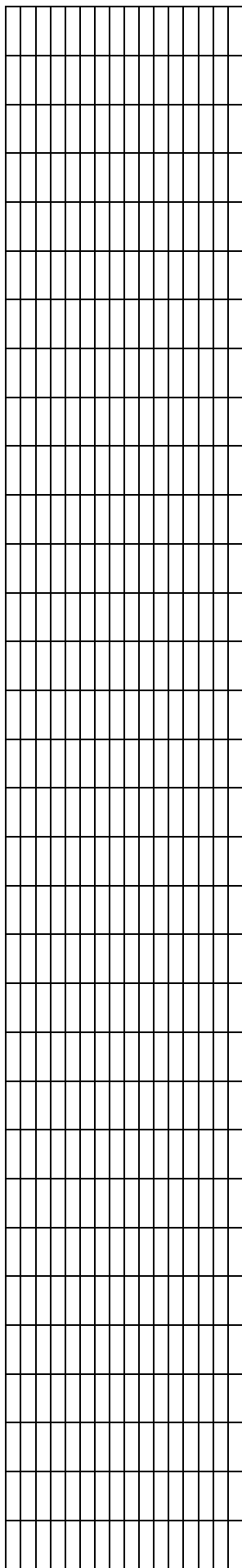
	Area	comman	order format
rocker	① forward		'\$1,0,0,0,0,0,0,0#'
	② Retreat		'\$2,0,0,0,0,0,0,0#'
	③ Left		'\$3,0,0,0,0,0,0,0#'
	④ Right		'\$4,0,0,0,0,0,0,0#'
	⑤ Stop		'\$0,0,0,0,0,0,0,0#'
Remark: Release the rocker and automatically return to the regions			

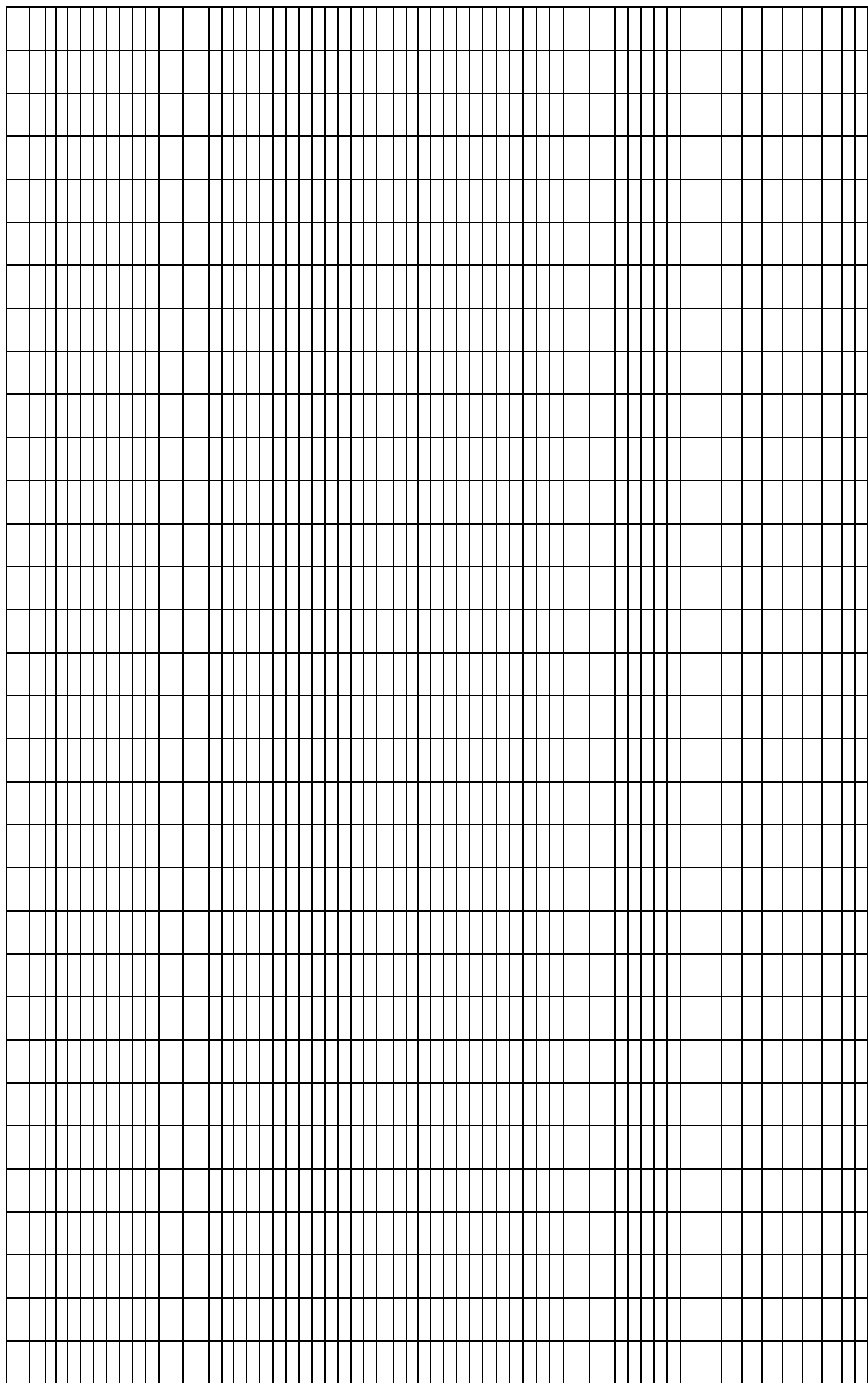


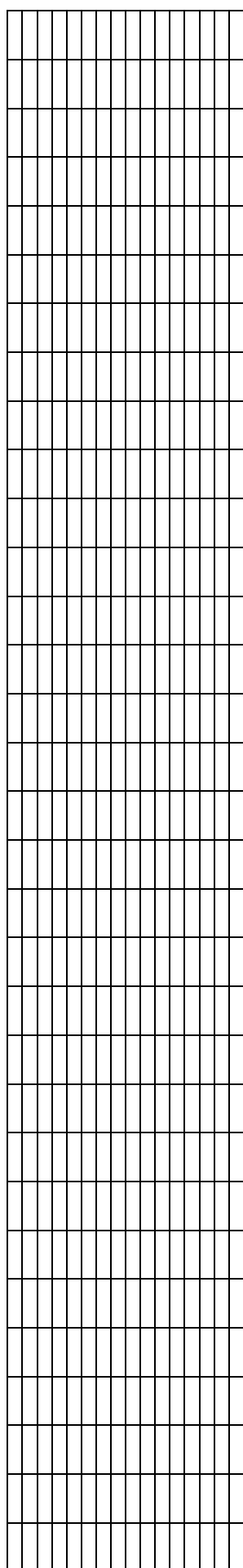
Bluetooth switch: Bluetooth scan connect

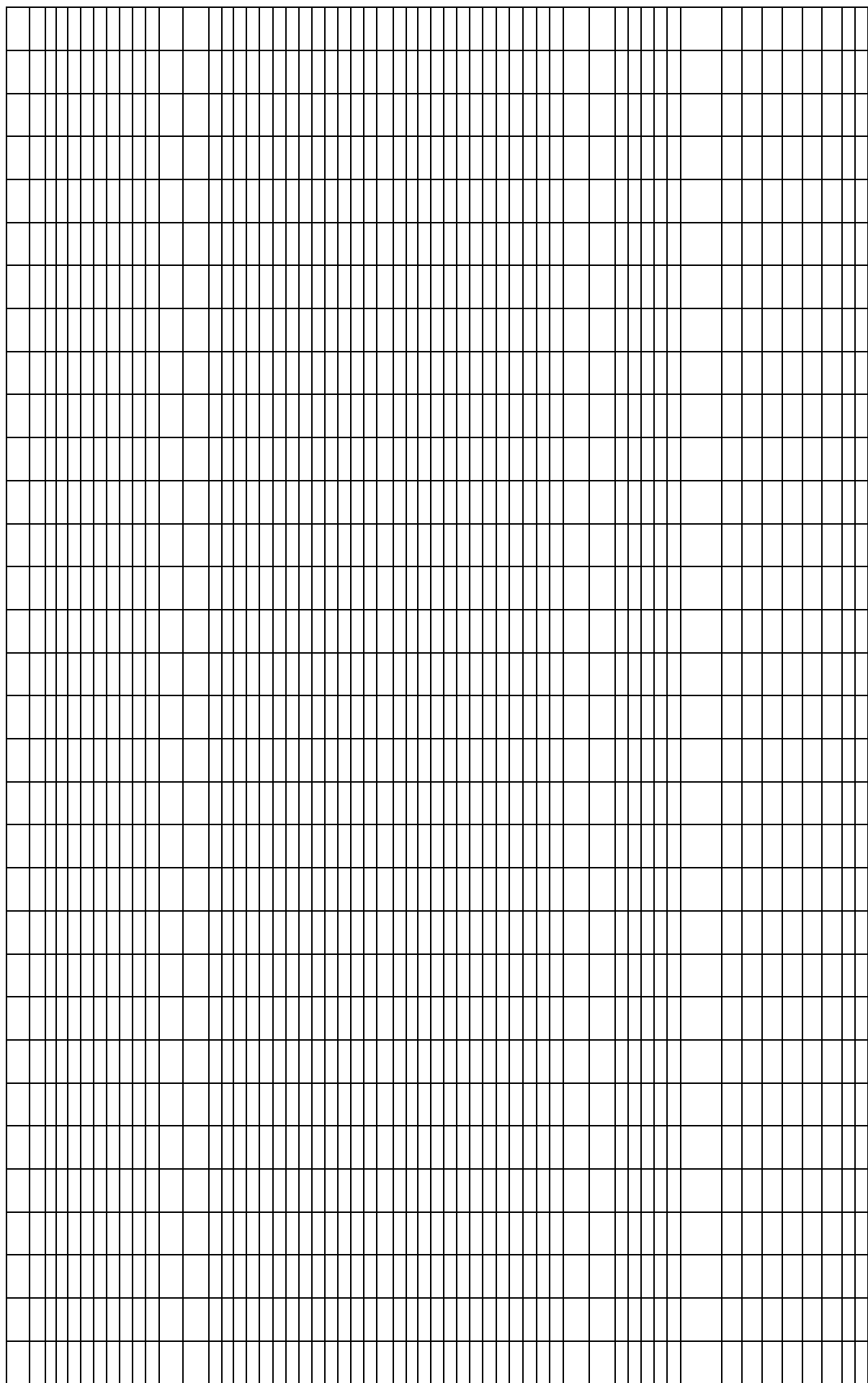


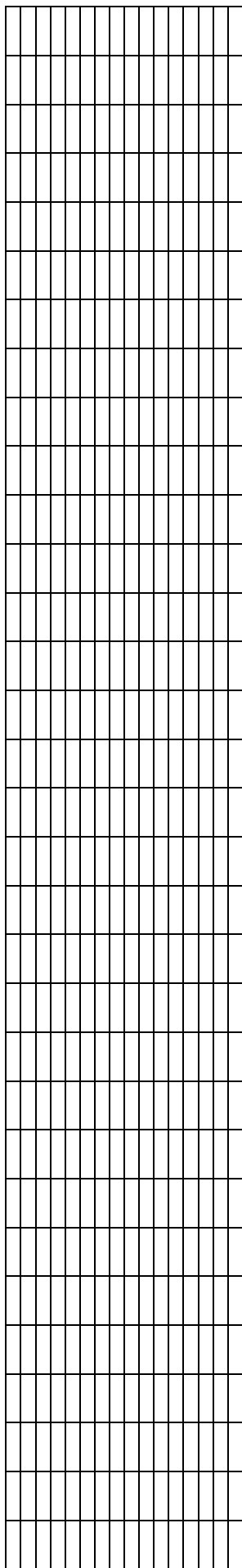




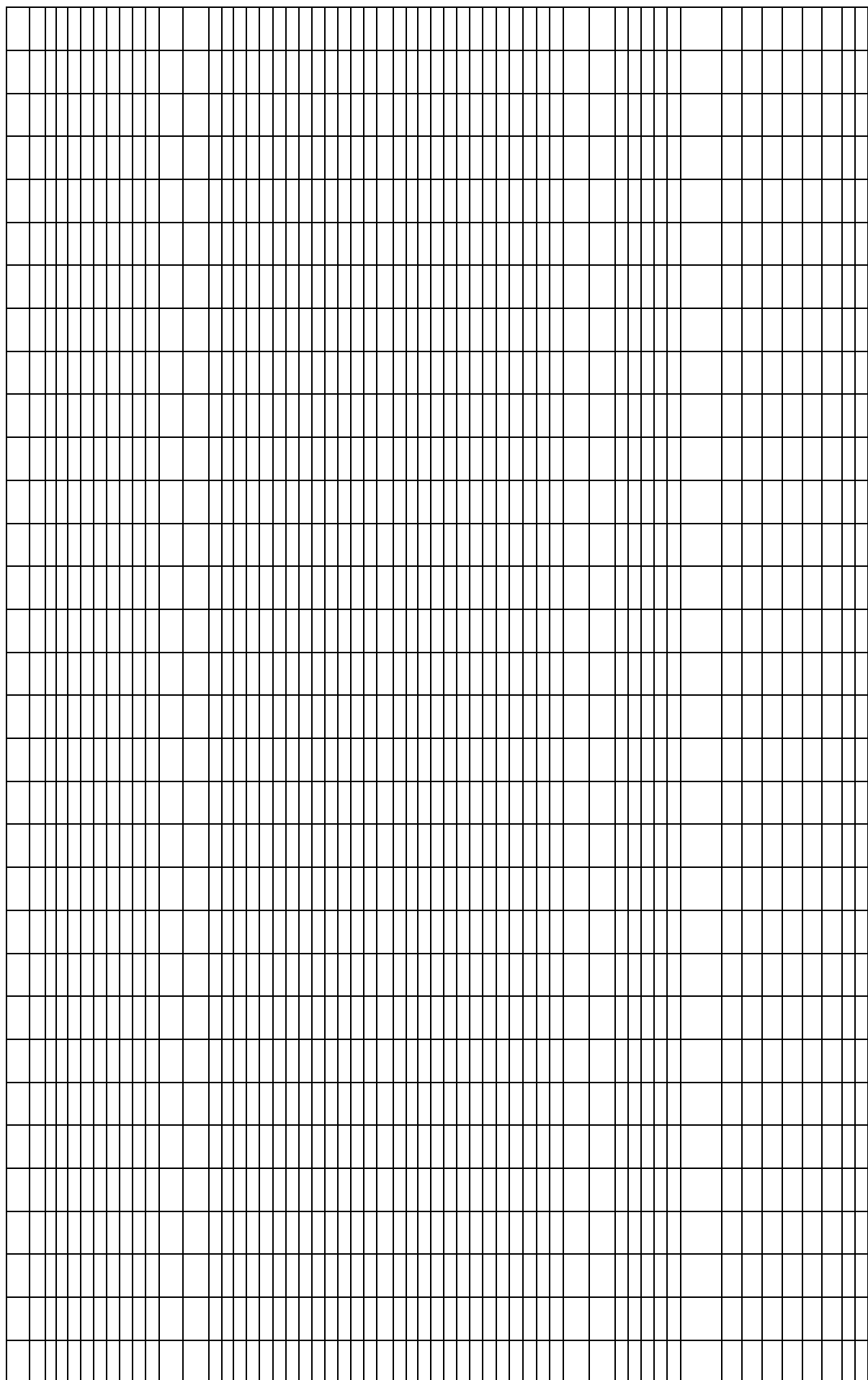


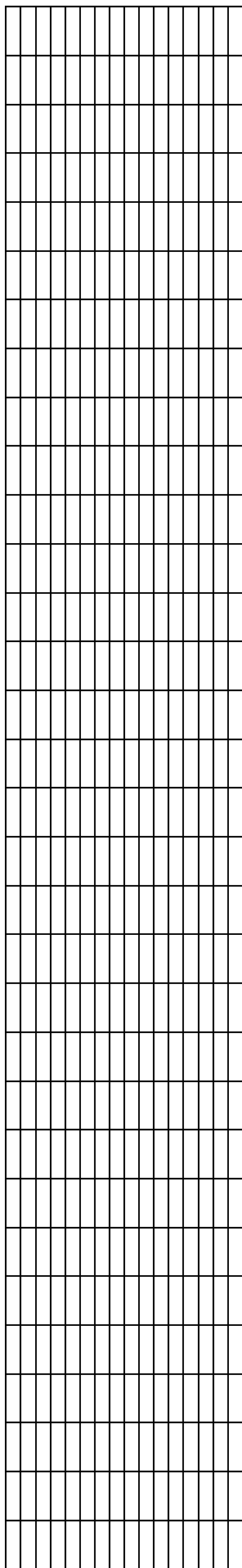


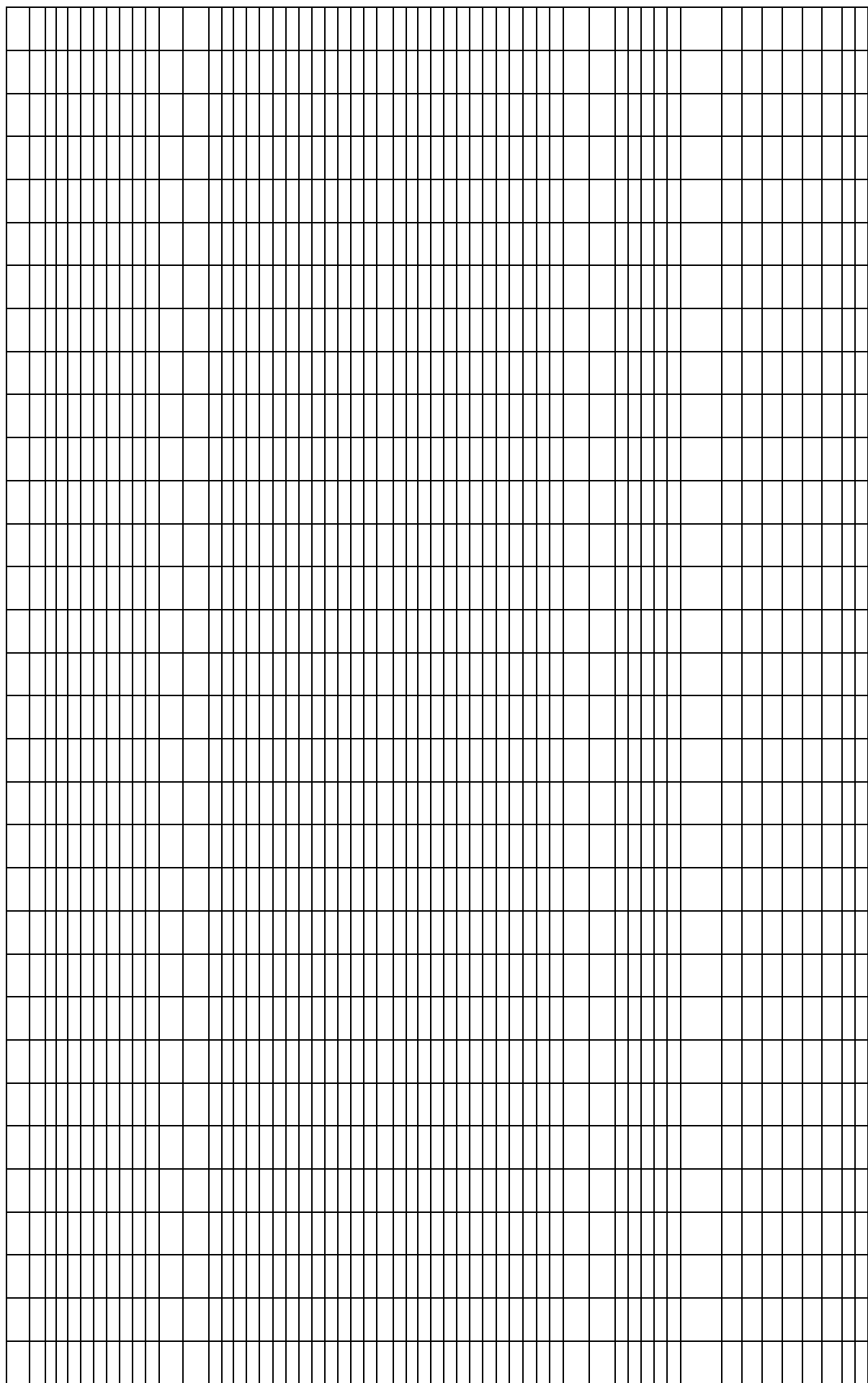


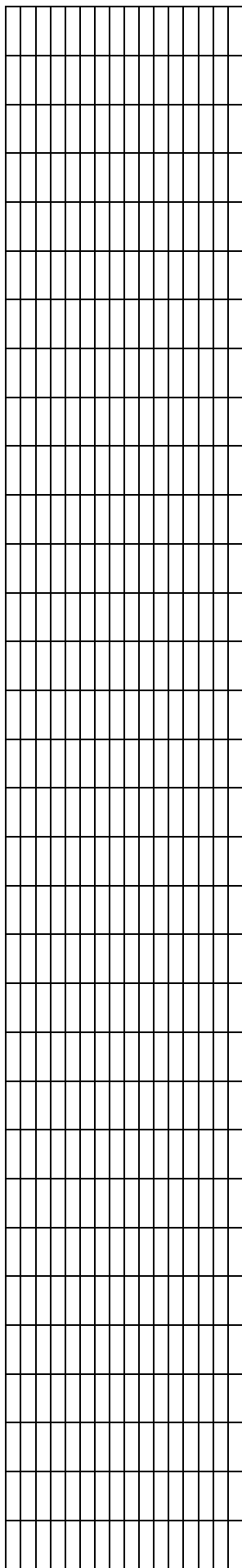


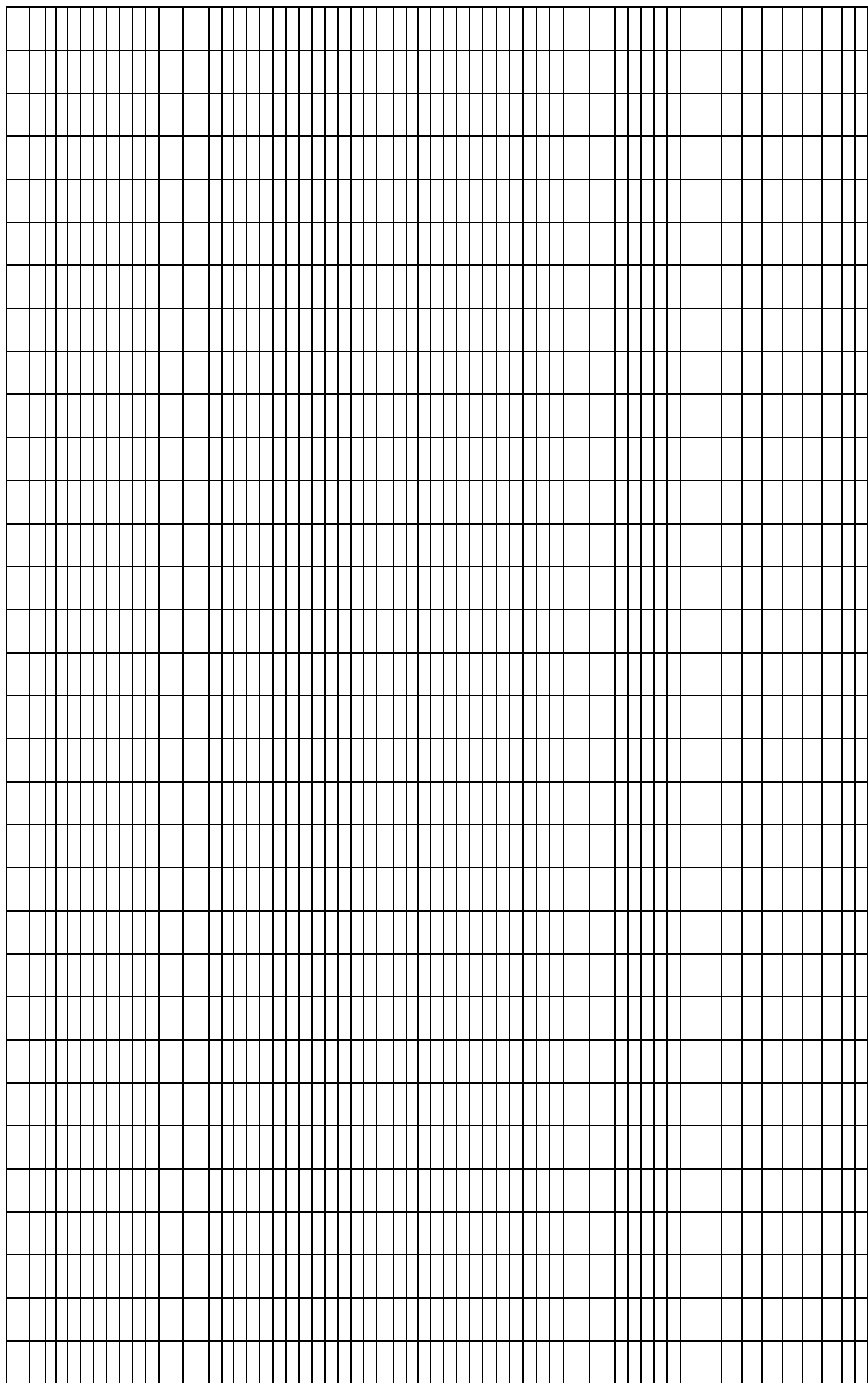


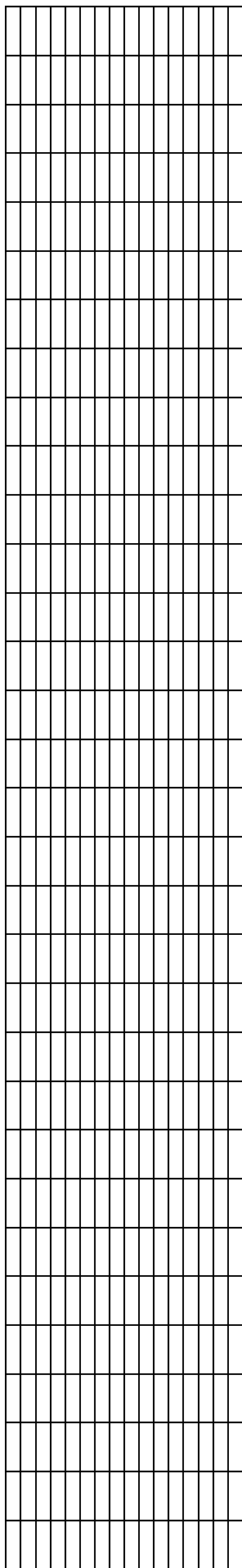


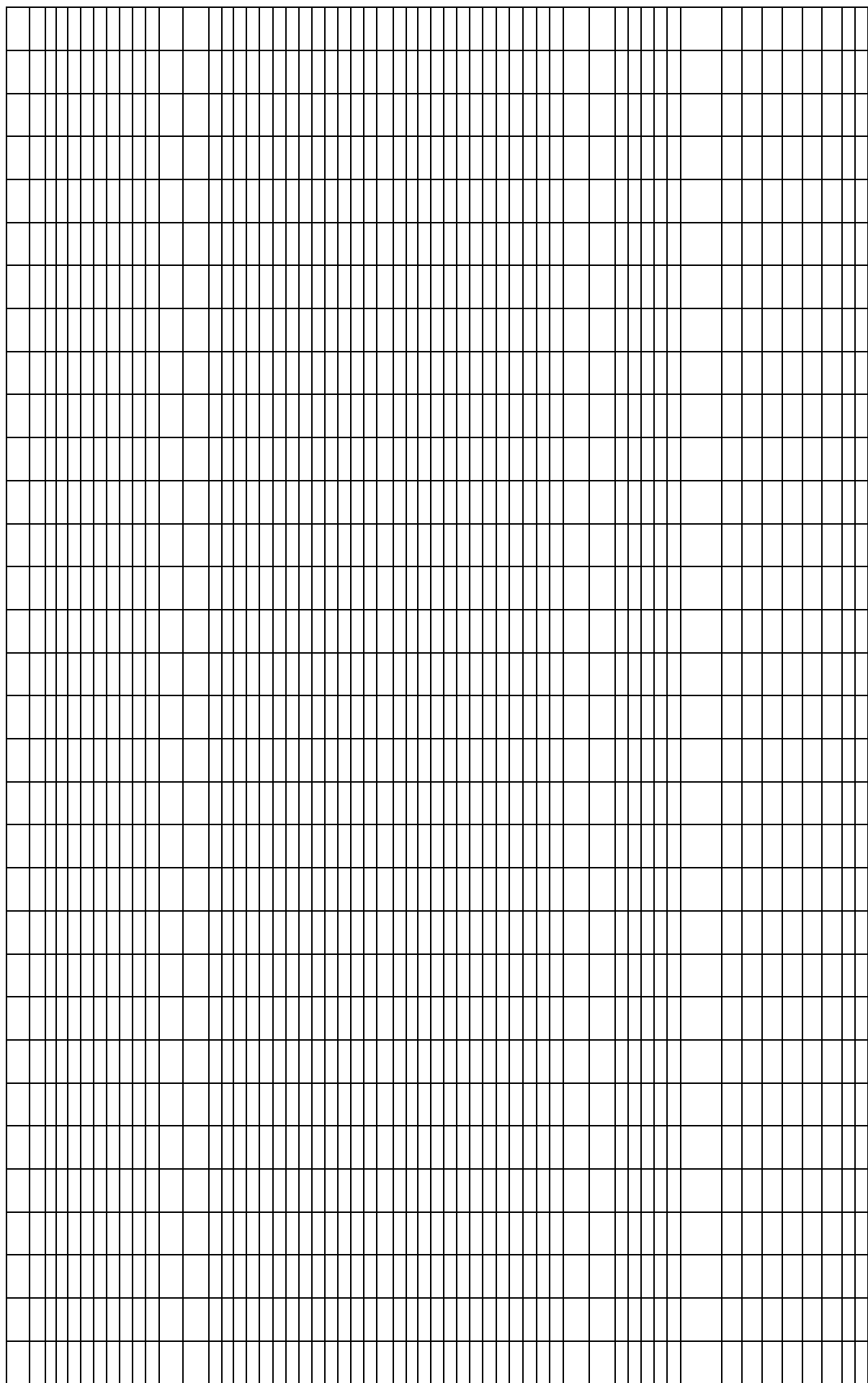


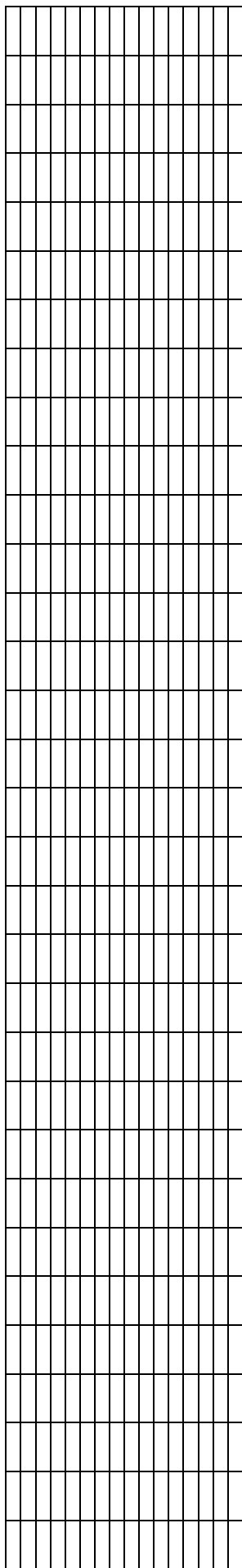














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