

Miscellaneous Mathematical Symbols-A

Miscellaneous Mathematical Symbols-A is a [Unicode block](#) containing characters for mathematical, logical, and database notation.

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Character table

Miscellaneous Mathematical Symbols-A	
Range	U+27C0..U+27EF (48 code points)
Plane	BMP
Scripts	Common
Symbol sets	Mathematical notation Logical notation
Assigned	48 code points
Unused	0 reserved code points
Unicode version history	
3.2 (2002)	28 (+28)
4.1 (2005)	35 (+7)
5.0 (2006)	39 (+4)
5.1 (2008)	44 (+5)
6.0 (2010)	46 (+2)
6.1 (2012)	48 (+2)
Chart	
<div>Code chart (https://www.unicode.org/charts/PDF/U27C0.pdf)</div>	
Note: ^[1] ^[2]	

Code	Result	Description
U+27C0	↙	Three dimensional angle
U+27C1	▴	White triangle containing small white triangle
U+27C2	⊥	Perpendicular
U+27C3	⊆	Open subset
U+27C4	⊇	Open superset
U+27C5	⌋	Left S-shaped bag delimiter
U+27C6	⌋	Right S-shaped bag delimiter
U+27C7	∨	Or with dot inside
U+27C8	⊋	Reverse solidus preceding subset
U+27C9	⊃	Superset preceding solidus
U+27CA	‡	Vertical bar with horizontal stroke
U+27CC	⌋	Long division
U+27D0	⬠	White diamond with centered dot
U+27D1	⋈	And with dot
U+27D2	⤿	Element of opening upward
U+27D3	⌞	Lower right corner with dot
U+27D4	⌟	Upper left corner with dot
U+27D5	⋔	Left outer join
U+27D6	⋕	Right outer join
U+27D7	⋖	Full outer join
U+27D8	⌞	Large up tack
U+27D9	⌟	Large down tack
U+27DA	⋈	Left and right double turnstile
U+27DB	⋈	Left and right tack
U+27DC	⋈	Left multimap
U+27DD	⌞	Long right tack
U+27DE	⌟	Long left tack
U+27DF	⌞	Up tack with circle above
U+27E0	⬠	Lozenge divided by horizontal rule
U+27E1	⬠	White concave-sided diamond
U+27E2	⬠	White concave-sided diamond with leftward tick
U+27E3	⬠	White concave-sided diamond with rightward tick
U+27E4	⬠	White square with leftward tick
U+27E5	⬠	White square with rightward tick
U+27E6	⌈	Mathematical left white square bracket
U+27E7	⌋	Mathematical right white square bracket
U+27E8	⌈	Mathematical left angle bracket
U+27E9	⌋	Mathematical right angle bracket
U+27EA	⌈	Mathematical left double angle bracket
U+27EB	⌋	Mathematical right double angle bracket
U+27EC	⌈	Mathematical left white tortoise shell bracket
U+27ED	⌋	Mathematical right white tortoise shell bracket
U+27EE	⌈	Mathematical left flattened parenthesis
U+27EF	⌋	Mathematical right flattened parenthesis

Compact table

Miscellaneous Mathematical Symbols-A ^[1] <div>Official Unicode Consortium code chart (https://www.unicode.org/charts/PDF/U27C0.pdf) (PDF)</div>																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
U+27Cx	↙	▴	⊥	⊆	⊇	⌋	⌋	∨	⊋	⊃	‡	/	⌋	↘	⬠	⬠
U+27Dx	⬠	⋈	⤿	⌞	⌟	⋔	⋕	⋖	⌞	⌟	⋈	⋈	⋈	⌞	⌟	⌞
U+27Ex	⬠	⬠	⬠	⬠	⬠	⬠	⌈	⌋	⌈	⌋	⌈	⌋	⌈	⌋	⌈	⌋
Notes <div>1.^ As of Unicode version 14.0</div>																

History

The following Unicode-related documents record the purpose and process of defining specific characters in the Miscellaneous Mathematical Symbols-A block:

Version	Final code points ^[a]	Count	L2 ID	WG2 ID
3.2	U+27D0..27E5	22	L2/01-142 (https://www.unicode.org/L2/L2001/01142-N2336-Mathadd9.pdf) ^[b]	N2336 (https://www.unicode.org/wg2/docs/n2336.pdf)
			L2/01-227 (https://www.unicode.org/L2/L2001/01227-utc87consent.htm)	
			L2/01-184R (https://www.unicode.org/L2/L2001/01184.htm)	
			L2/01-344 (https://www.unicode.org/L2/L2001/01344-n2353.pdf)	N2353 (pdf (https://www.unicode.org/wg2/docs/n2353.pdf), doc (https://www.unicode.org/wg2/docs/n2353.doc))
	U+27E6..27EB	6	L2/99-052 (https://www.unicode.org/L2/L1999/99052.htm)	
			L2/01-033 (https://www.unicode.org/L2/L2001/01033-addbrackets.htm)	
			L2/01-159 (https://www.unicode.org/L2/L2001/01159-N2344-MathAdHoc.pdf)	N2344 (https://www.unicode.org/wg2/docs/n2344.pdf)
			L2/01-157 (https://www.unicode.org/L2/L2001/01157-N2345R-brackets.pdf)	N2345R (https://www.unicode.org/wg2/docs/n2345R.pdf)
			L2/01-168 (https://www.unicode.org/L2/L2001/01168-hell.txt)	
			L2/01-012R (https://www.unicode.org/L2/L2001/01012.htm)	
			L2/01-223 (https://www.unicode.org/L2/L2001/01223.htm)	
			L2/01-184R (https://www.unicode.org/L2/L2001/01184.htm)	
			L2/01-317 (https://www.unicode.org/L2/L2001/01317-bracket.htm)	
			L2/01-295R (https://www.unicode.org/consortium/utc-minutes/UTC-088-200108.html)	

			L2/02-154 (https://www.unicode.org/L2/L2002/02154-n2403-minutes.pdf)	N2403 (https://www.unicode.org/wg2/docs/n2403.html)
4.1	U+27C0..27C1	2	L2/03-187 (https://www.unicode.org/L2/L2003/03187r-math.pdf)	N2612-6 (https://www.unicode.org/wg2/docs/n2612-6.html)
	U+27C2	1	L2/03-194 (https://www.unicode.org/L2/L2003/03194-math-letterlike.pdf)	N2590 (https://www.unicode.org/wg2/docs/n2590.html)
	U+27C3..27C6	4	L2/03-410 (https://www.unicode.org/L2/L2003/03410-n2680-add-math-chars.pdf)	N2680R (https://www.unicode.org/wg2/docs/n2680R.html)
			L2/04-098 (https://www.unicode.org/L2/L2004/04098-10646-pdam1-comments.pdf)	
			L2/04-316 (https://www.unicode.org/L2/L2004/04316.htm)	
5.0	U+27C7..27C9	3	L2/04-406 (https://www.unicode.org/L2/L2004/04406-math.pdf)	
			L2/04-410 (https://www.unicode.org/L2/L2004/04410-math.pdf)	
	U+27CA	1	L2/05-189 (https://www.unicode.org/L2/L2005/05189-n2958-upa-report.pdf)	N2958 (https://www.unicode.org/wg2/docs/n2958.html)
			L2/05-261 (https://www.unicode.org/L2/L2005/05261-n2989-uracist.pdf)	N2989 (https://www.unicode.org/wg2/docs/n2989.html)
			L2/05-270 (https://www.unicode.org/L2/L2005/05270-wg2docket.txt)	
			L2/05-279 (https://www.unicode.org/L2/L2005/05279.htm)	

				N2953 (pdf (https://www.unicode.org/wg2/docs/n2953.pdf)) doc (https://www.unicode.org/wg2/docs/n2953.doc))
5.1	U+27CC, 27EE..27EF	3	L2/07-011R (https://www.unicode.org/L2/L2007/07011-n3198-math.pdf)	N3198R (https://www.unicode.org/wg2/docs/n3198r.pdf)
			L2/07-015 (https://www.unicode.org/L2/L2007/07015.htm)	
			L2/07-268 (https://www.unicode.org/L2/L2007/07268-n3253.pdf)	N3253 (pdf (https://www.unicode.org/wg2/docs/n3253.pdf)) doc (https://www.unicode.org/wg2/docs/n3253.doc))
	U+27EC..27ED	2	L2/06-054R (https://www.unicode.org/L2/L2006/06054r-n3040-math-brackets.pdf)	N3040 (https://www.unicode.org/wg2/docs/n3040r.pdf)
			L2/06-008R2 (https://www.unicode.org/L2/L2006/06008.htm)	
				N3103 (pdf (https://www.unicode.org/wg2/docs/n3103r.pdf)) doc (https://www.unicode.org/wg2/docs/n3103.doc))
6.0	U+27CE..27CF	2	L2/09-273 (https://www.unicode.org/L2/L2009/09273-morp-ops.pdf)	N3677 (https://www.unicode.org/wg2/docs/n3677r.pdf)
			L2/09-225R (https://www.unicode.org/L2/L2009/09225.htm)	
			L2/09-359 (https://www.unicode.org/L2/L2009/09359-iancu-ai.pdf)	
				N3703 (pdf (https://www.unicode.org/wg2/docs/n3703r.pdf)) doc (https://www.unicode.org/wg2/docs/n3703.doc))
6.1	U+27CB, 27CD	2	L2/09-397 (https://www.unicode.org/L2/L2009/09397-diagonals.pdf)	
			L2/09-335R (https://www.unicode.org/L2/L2009/09335.htm)	

			<div>L2/10-007R (https://www.unicode.org/L2/L2010/10007r-n3763-diagonals.pdf)</div>	<div>N3763 (https://www.unicode.org/wg2/docs/n3763.pdf)</div>
			<div>L2/10-010 (https://www.unicode.org/L2/L2010/10010-rename-diagonals.pdf)</div>	
			<div>L2/10-015R (https://www.unicode.org/L2/L2010/10015.htm)</div>	
				<div>N3803 (pdf (https://www.unicode.org/wg2/docs/n3803.pdf)) doc (https://www.unicode.org/wg2/docs/n3803.doc))</div>

- a. Proposed code points and characters names may differ from final code points and names
- b. Refer to the [history section](#) of the Miscellaneous Mathematical Symbols-B block for additional math-related documents

See also

- Mathematical operators and symbols in Unicode

References

1. "Unicode character database" (<https://www.unicode.org>). *The Unicode Standard*. Retrieved 2016-07-09.

2. "Enumerated Versions of The Unicode Standard" (<https://www.unicode.org/versions/enumeratedversions.html>). *The Unicode Standard*. Retrieved 2016-07-09.

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