

Vision Conversion Chart - Ready Reckoner

SNELLENS					
US Notation	6 metres		DECIMAL	LOGMAR	20 Feet
6 / 5	6 / 5		1.20	-0.08	20 / 17
6 / 6	6 / 6		1.00	0.00	20 / 20
6 / 12	6 / 12		0.50	0.30	20 / 40
6 / 18	6 / 18		0.33	0.48	20 / 60
6 / 19	6 / 19		0.32	0.50	20 / 63
6 / 24	6 / 24		0.25	0.60	20 / 80
6 / 36	6 / 36		0.17	0.78	20 / 120
6 / 48	6 / 48		0.13	0.90	20 / 160
6 / 60	6 / 60		0.10	1.00	20 / 200
6 / 72	5 / 60		0.08	1.08	20 / 240
6 / 90	4 / 60		0.07	1.18	20 / 300
6 / 120	3 / 60		0.05	1.30	20 / 400
6 / 180	2 / 60		0.03	1.48	20 / 600
6 / 360	1 / 60		0.02	1.78	20 / 1200

ICD 11 Category*	
Snellens 6/## notation	
No VI	
No VI	
No VI	
Mild VI	
Moderate VI	
Moderate VI	
Moderate VI	
Moderate VI	
Moderate VI	
Severe VI	
Severe VI	
Severe VI	
Blind	
Blind	

Convert to Decimals for ICD 11 category

ETDRS AND LogMAR Progression Charts

4 metre	6 metre		DECIMAL	LOGMAR	20 Feet	13 feet (calc.)	13 feet alt.	
4 / 2.0	6 / 3		2.00	-0.30	20 / 10	13 / 7		
	6 / 3.8		1.58	-0.20	20 / 13	13 / 8		
4 / 3.2	6 / 4.8		1.25	-0.10	20 / 16	13 / 11		
4 / 4	6 / 6	1/1	1.00	0.00	20 / 20	13 / 13		
4 / 5	6 / 7.5		0.80	0.10	20 / 25	13 / 17		
	6 / 9.5		0.63	0.20	20 / 32	13 / 21		
4 / 8	6 / 12	1/2	0.50	0.30	20 / 40	13 / 26		
4 / 10	6 / 15		0.40	0.40	20 / 50	13 / 33		
4 / 12	6 / 18	1/3	0.33		20 / 60	13 / 39		
	6 / 19		0.32	0.50				
	6 / 20		0.30		20 / 70	13 / 42		
4 / 16	6 / 24	1/4	0.25	0.60	20 / 80	13 / 52		
4 / 20	6 / 30	1/5	0.20	0.70	20 / 100	13 / 66		
4 / 25	6 / 38		0.16	0.80	20 / 127	13 / 83		
4 / 32	6 / 48	1/8	0.13	0.90	20 / 160	13 / 104		
4 / 40	6 / 60	1/10	0.10	1.00	20 / 200	13 / 130	13/131	
4 / 48	6 / 72	5/60	1/12	0.08	1.08	20 / 240	13 / 156	
4 / 50	6 / 75			0.08	1.10	20 / 250	13 / 163	
4 / 60	6 / 90	4/60	1/15	0.07	1.18	20 / 300	13 / 195	
	6 / 95		1/16	0.06	1.2	20 / 317	13 / 206	
4 / 80	6 / 120	3/60	1/20	0.05	1.3	20 / 400	13 / 260	
4 / 100	6 / 150		1/24	0.04	1.4	20 / 500	13 / 325	
4 / 120	6 / 180	2/60	1/30	0.03	1.48	20 / 600	13 / 390	
	6 / 190		1/32	0.03	1.5	20 / 633	13 / 412	
4 / 160	6 / 240		1/40	0.03	1.6	20 / 800	13 / 520	
4 / 200	6 / 300		1/48	0.02	1.7	20 / 1000	13 / 650	
4 / 240	6 / 360	1/60	1/60	0.02	1.78	20 / 1200	13 / 780	
4 / 250	6 / 375			0.02	1.8	20 / 1250	13 / 813	
4 / 320	6 / 480			0.01	1.9	20 / 1600	13 / 1040	
4 / 400	6 / 600			0.01	2.0	20 / 2000	13 / 1300	

Snellen acuity = 20 / Decimal Acuity

Decimal = 20 / Snellen Acuity

logMAR = - log10 (decimal acuity)

Reference - J Cataract Refract Surg—Vol 30, February 2004

Decimal = 10 ^ -LogMAR= antilog(-LogMAR)

doi:S0886-3350(03)00125-7 [LINK](#)

*** In ICD 11, Moderate VI is classified if vision is < 6/18 Snellens or < 20/70 ETDRS or 0.3 decimal**
Mild visual impairment includes: 6/18, 6/19, 20/70 ETDRS, 0.3 decimal, 0.5 LogMAR
Moderate visual impairment includes: < 6/18, < 6/19, <= 20/80 ETDRS, < 0.3 decimal, < 0.5 LogMAR

Reference: <https://icd.who.int/browse11/l-m/en#/http%3a%2f%2fid.who.int%2fcd%2fentfity%2f1103667651>