

MOA / MIL CONVERSION

Scope adjustment, both ways. 1 MOA = 1/60 degree; 1 MIL = 1 milliradian.

MOA	MIL
0.25	0.07
0.50	0.15
1.00	0.29
2.00	0.58
3.00	0.87
4.00	1.16

MOA	MIL
5.00	1.45
10.00	2.91
15.00	4.36
20.00	5.82
25.00	7.27
30.00	8.73

1 MOA = 0.2909 MIL 1 MIL = 3.438 MOA

Exact ratio, from the angles. MOA x 0.2909 = MIL, MIL x 3.438 = MOA.



WHAT IT IS WORTH

An angle is not a distance until you say how far away. Subtension at the target.

At 100 m, 1 MOA = 29.1 mm and 1 MIL = 100 mm

Distance	1 MOA (mm)	1 MIL (mm)
25 m	7.3	25
50 m	14.5	50
100 m	29.1	100
200 m	58.2	200
300 m	87.3	300

Quick rule: 1 MIL ~ 3.44 MOA. 1 MOA ~ 1 inch at 100 yards.

The inch rule is 4.7% out - one MOA is 1.047 in at 100 yd. Close enough to hold on game, not to dial a match.

