

Scenario	Method	1	Flat 2	Hit 5	@K 10	20
2-hop	Frome	6.0	10.0	18.1	26.4	36.4
	Norouzi	9.4	15.1	24.7	32.7	41.8
	Changpinyo	10.5	16.7	28.6	40.1	52.0
	Ours.	13.05	21.52	33.71	43.91	57.31
2-hop (+1K)	Frome	0.8	2.7	7.9	14.2	22.7
	Norouzi	0.3	7.1	17.2	24.9	33.5
	Ours.	4.93	13.02	20.81	31.48	45.31
3-hop	Frome	1.7	2.9	5.3	8.2	12.5
	Norouzi	2.7	4.4	7.8	11.5	16.1
	Changpinyo	2.9	4.9	9.2	14.2	20.9
	Ours.	3.58	5.97	11.03	16.51	23.88
3-hop (+1K)	Frome	0.5	1.4	3.4	5.9	9.7
	Norouzi	0.2	2.4	5.9	9.7	14.3
	Ours.	1.99	4.01	6.74	11.72	16.34
All	Frome	0.8	1.4	2.5	3.9	6.0
	Norouzi	1.4	2.2	3.9	5.8	8.3
	Changpinyo	1.5	2.4	4.5	7.1	10.9
	Ours.	1.90	3.03	5.67	8.31	13.14
All (+1K)	Frome	0.3	0.8	1.9	3.2	5.3
	Norouzi	0.2	1.2	3.0	5.0	7.5
	Ours.	1.03	1.93	4.98	6.23	10.26