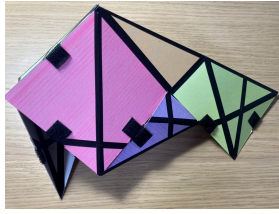


# Supplementary Materials of Alexandrov Puzzle

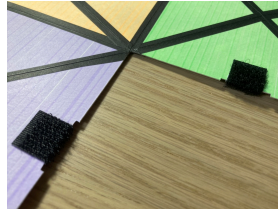
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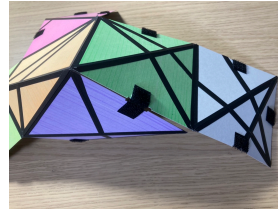
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(a) magnet glueing



(b) magnet close-up



(c) Velcro glueing



(d) Velcro close-up

**Figure 1:** glueing mechanism at foldings made by magnet or velcro.

**Table 1:** The order and the time of discovering solutions by ten subjects. The symbol “M” in maths background indicates that the person is a master-course mathematics student. Some people could not find all five solutions within 30 minutes.

subject	maths background	type	time				
1	M	$Q_0T_0^mP_0O_0$	C	Q	O	T	P
			under 1m	3m30s	7m5s	19m	21m50s
2	M	$Q_0T_0^mP_0O_0$	C	O	P	Q	-
			under 1m	3m17s	3m50s	14m50s	
3	M	$Q_0T_0^mP_0O_0$	C	T	P	Q	-
			under 1m	13m16s	15m15s	21m20s	
4	M	$Q_0T_0^mP_0O_0$	C	Q	T	O	P
			under 1m	7m20s	14m24s	20m	27m
5		$Q_0T_0^mP_0O_0$	C	Q	T	O	P
			under 1m	15m23s	19m10s	24m	28m35s
6	M	$Q_0T_0^mP_1^mO_1$	C	P	T	Q	-
			under 1m	5m25s	21m	25m46s	
7	M	$Q_0T_0^mP_1^mO_1$	C	P	T	O	-
			under 1m	4m22s	20m20s	28m	
8	M	$Q_0T_0^mP_1^mO_1$	C	O	P	Q	T
			under 1m	2m20s	3m30s	6m50s	11m
9	M	$Q_0T_0^mP_1^mO_1$	C	T	O	-	-
			under 1m	7m42s	over 30m		
10		$Q_0T_0^mP_1^mO_1$	C	O	P	Q	T
			under 1m	3m6s	5m6s	15m22s	19m20s