The operation table below for * makes the set $G = \{m, n, o, p, q, r\}$ into a group. Find the missing entries, justifying your answers:

	m					
m	m	n	O	p	q	r
n	1	p	q	3	r	0
0	m 1 2	r	m	5		6
p		4				
q			n			
r		q	p			