Mark scheme

Symmetry

Mathematics 0580 · Questions from Paper 1 and Paper 2

Total marks

27

MARKS FOR EACH QUESTION

1	2	3	4	5	6	7	8	9	10	Total
2	2	2	2	2	3	3	3	4	4	**27**

Question 1 [2]

1	**(a)**	I cao	**1**	
	(b)	I N cao	**1**	

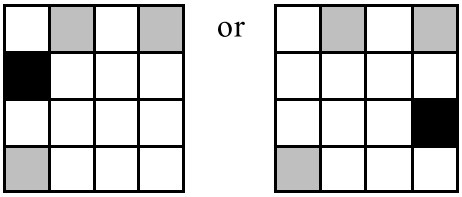
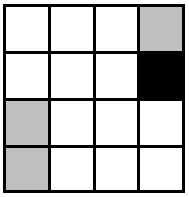
Question 2 [2]

2	**(a)** 5	1	
	(b) 0	1	

Question 3 [2]

3	Both lines of symmetry only drawn	**2**	**B1** each correct line Penalise 1 for each incorrect line

Question 4 [2]

4(a)		**1**	
4(b)		**1**	

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Question 5 **[2]**

5(a)	4	**1**	
5(b)	*E* and *M*	**1**	

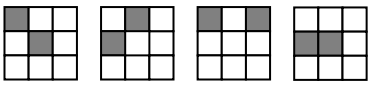
Question 6 **[3]**

6(a)	3 correct lines	**2**	**B1** for two correct lines and no extras or 3 correct lines and one extra
6(b)	3	**1**	

Question 7 **[3]**

7	**(a)** 0	1	
	(b) 2	1	
	(c) plane across centre of shape	1	Three possibilities

Question 8 **[3]**

8	**(a)** 2 lines joining opposite vertices	1, 1	Independent Accept reasonable freehand
	(b) Centre square and any other **or** 2 adjacent corner squares **or** 2 centre squares on adjacent edges	1	Any of these diagrams:  May be rotated through 90, 180, 270 degrees

Question 9 **[4]**

9	**(a)**	Three correct, ruled lines	**2**	**B1** for two correct lines
	(b) **(i)**	Drawing a rectangle or rhombus	**1**	
	(ii)	FT their quadrilateral in **(b)(i)**	**1**	

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Question 10 **[4]**

10(a)	Pentagon	**1**	
10(b)	all 5 lines of symmetry drawn	**2**	**B1** for 3 lines of symmetry and no extras or all 5 lines and 1 extra line
10(c)	5	**1**	

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