Mark scheme

Constructions and nets

Mathematics 0580 · Questions from Paper 1, Paper 2, Paper 3 and Pape…

Total marks

24

MARKS FOR EACH QUESTION

1	2	3	4	5	6	7	8	9	10	Total
1	2	2	2	2	2	3	3	3	4	**24**

Question 1 **[1]**

1	triangular prism	**1**	

Question 2 **[2]**

2	8 5	**2**	**B1** for each in correct position

Question 3 **[2]**

3(a)	5.6	**1**	
3(b)	Ruled line parallel to *AB*	**1**	

Question 4 **[2]**

4	correct triangle with correct arcs	**2**	**B1** for correct triangle without arcs or 1 correct side with arcs

Question 5 **[2]**

5	Equilateral triangle with correct arcs	**2**	**M1** for clear evidence of constructed 60° angles or arcs crossing equal in length to *AB* or an accurate diagram with no/incorrect arcs

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Question 6 **[2]**

6	Accurate construction of rhombus with sides 6.5 cm and correct construction arcs.	**2**	**B1** for accurate diagram with no/wrong arcs or for one triangle (6.5 cm, 6.5 cm, 8 cm) correctly constructed with correct arcs or for four correct arcs

Question 7 **[3]**

7(a)	9	**1**	
7(b)	Midpoint marked	**1**	
7(c)	Perpendicular line drawn	**1**	

Question 8 **[3]**

8	Complete correct **ruled** net	**3**	**B2** for 4 correct rectangles in correct places or **B1** for 2 correct side rectangles in correct places

Question 9 **[3]**

9	Fully correct net	**3**	**B2** for the two correct rectangles, in either order below the given face **and** two 3,4,5 triangles, one on each side or **B1** for 1 correct rectangle in either place below the given face or for two 3, 4, 5 triangles, one each side

Question 10 **[4]**

10	$a = 18$ $b = 10$ $c = 4$ $d = 9$	**4**	**B1** for each If 0 scored, **SC1** for b or c = 4, 5 or 10

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