

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Department of Curriculum Management
Educational Assessment Unit
End of Primary Benchmark – 2015 – SECOND SESSION
















MATHEMATICS MARKING SCHEME

MENTAL PAPER


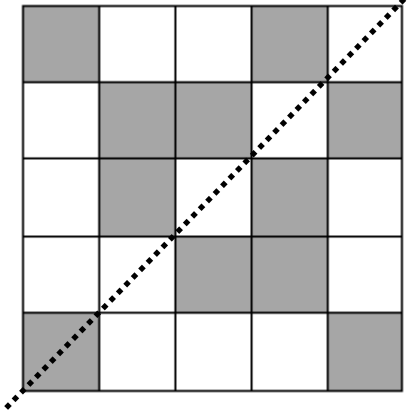
(1 mark each c.a.o.)

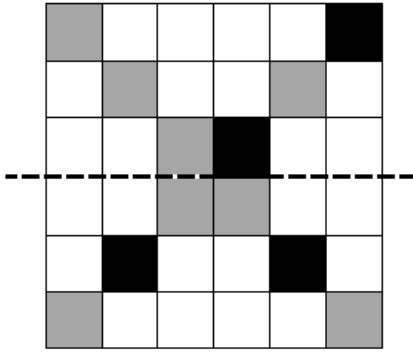
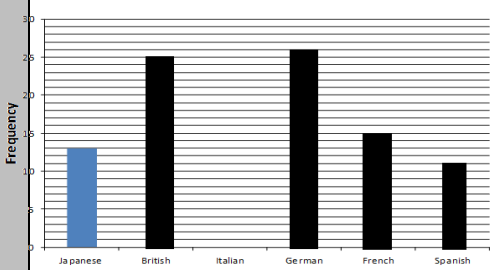
1.	248
2.	73
3.	60 or 6 tens
4.	9 or 9.0
5.	5·7 or 5·70 or 5·700
6.	4000
7.	Yes
8.	128
9.	7·8
10.	Accept any number between 8500 and 9499. Do not accept 9000
11.	1·02
12.	210
13.	120
14.	11
15.	400
16.	80
17.	6
18.	1
19.	20
20.	06:35 or 6:35 or 18:35

WRITTEN PAPER

Question No.	Answers and Requirements	Marks	Additional Guidance																														
1. a)	287	1	c.a.o.																														
b)	353	1	c.a.o.																														
c)	900	1	c.a.o.																														
d)	13	1	c.a.o.																														
2. a)	False	1	c.a.o.																														
b)	True	1	c.a.o.																														
c)	False	1	c.a.o.																														
d)	False	1	c.a.o.																														
3.	<table border="1"> <tbody> <tr> <td>a.</td> <td>It has no vertices and two edges.</td> <td>d</td> <td></td> <td>1</td> <td>c.a.o.</td> </tr> <tr> <td>b.</td> <td>It has no vertices and no edges.</td> <td>a</td> <td></td> <td>-</td> <td>-</td> </tr> <tr> <td>c.</td> <td>It has 1 vertex, 1 edge and 2 faces.</td> <td>e</td> <td></td> <td>1</td> <td>c.a.o.</td> </tr> <tr> <td>d.</td> <td>It has 8 vertices, 12 edges and 6 faces.</td> <td>c</td> <td></td> <td>1</td> <td>c.a.o.</td> </tr> <tr> <td>e.</td> <td>It has 5 vertices, 8 edges and 5 faces.</td> <td>b</td> <td></td> <td>1</td> <td>c.a.o.</td> </tr> </tbody> </table>	a.	It has no vertices and two edges.	d		1	c.a.o.	b.	It has no vertices and no edges.	a		-	-	c.	It has 1 vertex, 1 edge and 2 faces.	e		1	c.a.o.	d.	It has 8 vertices, 12 edges and 6 faces.	c		1	c.a.o.	e.	It has 5 vertices, 8 edges and 5 faces.	b		1	c.a.o.		
a.	It has no vertices and two edges.	d		1	c.a.o.																												
b.	It has no vertices and no edges.	a		-	-																												
c.	It has 1 vertex, 1 edge and 2 faces.	e		1	c.a.o.																												
d.	It has 8 vertices, 12 edges and 6 faces.	c		1	c.a.o.																												
e.	It has 5 vertices, 8 edges and 5 faces.	b		1	c.a.o.																												
4. a) i.	Mike	1	c.a.o.																														
ii.	Sophie	1	c.a.o.																														
iii.	Gary	1	c.a.o.																														
b)	15	1	c.a.o.																														

Question No.	Answers and Requirements	Marks	Additional Guidance
5.	12 cm ² seen 3 cm ² seen attempt to add the area of the triangle and the area of the rectangle seen or implied 15 cm ²	1 1 1 2	Accept any other valid method c.a.o.
6. a)	a = 55° b = 280°	1 1	Accept a = 55 b = 280
b) i.		1 1	c.a.o. c.a.o.
b) ii.	South East or SE	1	c.a.o.
7.	the mean of 63, 76 and 65 50% of 136 6800 ÷ 100 $\frac{1}{4}$ of 272 68 ÷ 1	1 1 1 1 1	c.a.o. c.a.o. c.a.o. c.a.o. c.a.o.
8. a)	255 ÷ 15 seen or implied 17 bags	1 1	Accept any other valid method c.a.o.
b)	18 × 27 seen or implied + 11 seen or implied 497 sweets	1 1 1	Accept any other valid method c.a.o.
9. a)	750 millilitres	1	c.a.o.
b)	Bottle A	1	c.a.o.
c)	500 ml	1	c.a.o.
d)	Bottle A	1	c.a.o.
e)	2.5 litres or 2.50 litres or 2.500 litres or 2 ½ litres	1	c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance
10. a)		1	c.a.o.
b)	13:45	1	c.a.o.
c)	subtraction seen or implied 55 minutes	1 1	Accept any other valid method c.a.o.
d)	Speed Machines	1	c.a.o.
11. a)	Lara: €48.70 seen Maria: €65.75 seen €17.05	1 1 1	Accept any other valid method c.a.o.
b)	€10.36	1	c.a.o. (f.t. from Lara's amount of money left in 11a)
c)	€53.25	1	c.a.o. (f.t. from Maria's amount of money left in 11a)
12. a)	$\frac{1}{9}$	1	c.a.o.
b)		2	c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance
12. c)		2	c.a.o.
13. a)	$36 \div 4$ seen or implied 9 metres	1 1	Accept other valid methods c.a.o.
b)	9×9 81 metres	1 1	Accept other valid methods c.a.o.
c)	$108 \div 9$ or 12 spaces seen 13 lamp posts	1 1	Accept other valid attempts c.a.o.
14. a)	$13 + 25 + 0 + 26 + 15$ subtraction from 90 cars 11 cars	1 1 1	Accept any other valid attempt c.a.o.
b)		3	f.t. from 14a All bars drawn correctly
15. a)	$120 + 120 + 75 + 75$ 390 cm	1 1	Accept any valid attempt to work out perimeter c.a.o.
b) i.	$(45 \times 30) + (65 \times 20)$ 2650 cm ²	1 1	Accept any other valid attempt to work out area of poster c.a.o.
b) ii.	subtraction of area of poster from area of notice board 6350 cm ²	1 1	f.t. from 15b c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance																				
16. a)	<table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">□</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 30px; height: 30px; text-align: center;">□</td> <td style="width: 30px; height: 30px; text-align: center;">○</td> <td style="width: 30px; text-align: center;">55</td> </tr> <tr> <td style="width: 30px; height: 30px; text-align: center;">○</td> <td style="width: 30px; height: 30px; text-align: center;">◆</td> <td style="width: 30px; height: 30px; text-align: center;">○</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td></td> </tr> <tr> <td style="width: 30px; height: 30px; text-align: center;">□</td> <td style="width: 30px; height: 30px; text-align: center;">◆</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 30px; height: 30px; text-align: center;">◆</td> <td style="width: 30px; text-align: center;">53</td> </tr> <tr> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td></td> </tr> </table>	□	★	□	○	55	○	◆	○	★		□	◆	★	◆	53	★	★	★	★		1	1 mark for every two correct totals
	□	★	□	○	55																		
	○	◆	○	★																			
	□	◆	★	◆	53																		
	★	★	★	★																			
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">42</td> <td style="width: 30px; height: 30px; text-align: center;">33</td> </tr> </table>	42	33	1	1 mark for every two correct totals																			
42	33																						
<table style="margin-left: 20px;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">□</td> <td style="width: 20px; text-align: center;">=</td> <td style="width: 30px; text-align: center;">21</td> <td style="width: 30px; border-bottom: 1px solid black;"></td> </tr> </table>	□	=	21		1	c.a.o.																	
□	=	21																					
<table style="margin-left: 20px;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">◆</td> <td style="width: 20px; text-align: center;">=</td> <td style="width: 30px; text-align: center;">12</td> <td style="width: 30px; border-bottom: 1px solid black;"></td> </tr> </table>	◆	=	12		1	c.a.o.																	
◆	=	12																					
<table style="margin-left: 20px;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">★</td> <td style="width: 20px; text-align: center;">=</td> <td style="width: 30px; text-align: center;">8</td> <td style="width: 30px; border-bottom: 1px solid black;"></td> </tr> </table>	★	=	8		1	c.a.o.																	
★	=	8																					
<table style="margin-left: 20px;"> <tr> <td style="width: 30px; height: 30px; text-align: center;">○</td> <td style="width: 20px; text-align: center;">=</td> <td style="width: 30px; text-align: center;">5</td> <td style="width: 30px; border-bottom: 1px solid black;"></td> </tr> </table>	○	=	5		1	c.a.o.																	
○	=	5																					

Legend to Marking Scheme:

c.a.o. correct answer only

f.t. follow through

Other guidelines:

1. No mark in the marking scheme is sub-divisible.
2. A correct answer scores full marks, even if no working is shown.
3. Incorrect answers – even though nearly correct – score no marks but marks are awarded for correct working.
4. No marks are awarded when a wrong method leads to a correct answer.
5. Incorrect working or statement following a correct answer is ignored.
6. An answer or working that is crossed out and not replaced is marked as if it was not crossed out. If the answer or working is **replaced**, then the crossed out answer or working should **not** be considered in your marking.
7. If a correct answer is copied incorrectly from the working area to the answer area, then the marks are awarded fully.
8. In the case of misreading, f.t. may be applied and only the final accuracy mark is lost. The method marks may still be earned provided that the misreading doesn't oversimplify the question.