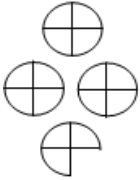


DEPARTMENT FOR CURRICULUM, LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit
End of Primary Benchmark
2018

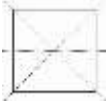
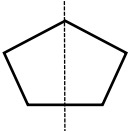
MATHEMATICS MARKING SCHEME

MENTAL PAPER


(1 mark each c.a.o.)

1.	370
2.	6
3.	any two parts are shaded
4.	'scalene triangle' ticked
5.	200
6.	12
7.	50
8.	77
9.	4
10.	36
11.	South West (or SW)
12.	45
13.	64
14.	 circled
15.	'07:50' ticked
16.	100
17.	2400 g or 2.4 kg or 2 kg 400 g (or equivalent)
18.	80
19.	0.2
20.	$\frac{4}{24}$ or $\frac{1}{6}$

WRITTEN PAPER

Question No.	Answers and Requirements	Marks	Additional Guidance
1. a)	200	1	c.a.o.
b)	322	1	c.a.o.
c)	1600	1	c.a.o.
d)	24	1	c.a.o.
2.	9426	1 1 1 1	The digit in the units place is 6. The digit 4 appears once. It is a number that when rounded to the nearest 100, it becomes 9400. The digit in the hundreds place is double the digit in the tens place.
3. a) i.	180°	1	c.a.o.
ii.	30°	1	c.a.o.
b) i.	110° ($\pm 2^\circ$)	1	c.a.o.
ii.	An angle of 45° is drawn accurately ($\pm 2^\circ$)	1	c.a.o.
4. a)	3 658	1	c.a.o.
b)	4 0 3	1	c.a.o.
c)	870 8 ... 1 244	1,1	c.a.o.
5. a) i.	4 lines of symmetry drawn accurately with a ruler 	1	c.a.o.
ii.	1 line of symmetry drawn accurately with a ruler 	1	c.a.o.

b) i. ii.		2	c.a.o. [both boxes in correct place]
		1	c.a.o. [horizontal line of symmetry is drawn]
6. a)		1,1,1	c.a.o. Also accept NW, E and S
b) i.	West (or W)	1	c.a.o.
ii.	South East (or SE)	1	c.a.o.
7. a)	$\frac{56}{100}$ or $\frac{28}{50}$ $\frac{14}{25}$	1 1	c.a.o. c.a.o.
b)	100% - 56% 44%	1 1	seen [f.t. from above]
c)	19 more squares are shaded	1	c.a.o.
8. a)	36, 45, 55	1,1,1	c.a.o.
b)	64, 81	1,1	c.a.o.
9. a)	200	1	c.a.o.
b)	$\frac{40}{200}$ or $\frac{1}{5}$ (or any equivalent fraction)	2	[f.t. from above]
c)	'False' ticked Half of 200 is 100 and 80 is less than 100.	2	c.a.o. Accept any valid reason/working

10.	<table border="1"> <tbody> <tr> <td>30</td> <td>1</td> <td>12</td> <td>Z</td> </tr> <tr> <td><u>11</u></td> <td><u>8</u></td> <td>29</td> <td>2</td> </tr> <tr> <td>5</td> <td>10</td> <td>3</td> <td>32</td> </tr> <tr> <td>4</td> <td><u>31</u></td> <td><u>6</u></td> <td>9</td> </tr> </tbody> </table>	30	1	12	Z	<u>11</u>	<u>8</u>	29	2	5	10	3	32	4	<u>31</u>	<u>6</u>	9	1 1,1 1,1	c.a.o. c.a.o. c.a.o.
30	1	12	Z																
<u>11</u>	<u>8</u>	29	2																
5	10	3	32																
4	<u>31</u>	<u>6</u>	9																
11. a)		2	c.a.o. [award marks if both minute hand and hour hand are drawn accurately]																
b) i.	'Amy' ticked	1	c.a.o.																
ii.	2 minutes 10 seconds – 1 minute 50 seconds / timeline 20 seconds	1 1	seen																
12. a)	46932	1	c.a.o.																
b)	46932 ÷ 4 11733	1 1	seen [f.t. from above]																
c)	10788 × 5 53940 53940 - 46932 7008	1 1	[any part of this process seen] [f.t. from above]																
13. a)	'15 bottles' ticked	2	c.a.o.																
b) i.	l	1	c.a.o.																
ii.	ml	1	c.a.o.																
iii.	l	1	c.a.o.																
iv.	ml	1	c.a.o.																

14.	a) i.	cube	1	c.a.o.
	ii.	$3 \times 3 / 9 / 9 \times 6$	1	seen
		54	1	c.a.o.
b)	i.	5×6 or $5 + 5 + 5 + 5 + 5 + 5$	1	seen
	ii.	30	1	c.a.o.
		pyramid or tetrahedron	1	c.a.o.
15.	a) i.	$720 - 450$ and / or 270	1	seen
		$270 \div 90$	1	seen
		3	1	c.a.o.
	ii.	$585 - 450$ or 135 or $135 \div 3$	1	seen
		45	1	[f.t. from above]
		b)	1850	1
16.	a)	12.95×10	1	seen
		129.50	1	c.a.o.
	b)	trial and improvement method	2	any valid attempt seen
		12 grey chairs	1	seen
		48 black chairs	1	c.a.o.

Legend to Marking Scheme:

c.a.o. correct answer only

f.t. follow through

Other guidelines:

- No mark in the marking scheme is sub-divisible.
- A correct answer scores full marks, even if no working is shown.
- Incorrect answers – even though nearly correct – score no marks but marks are awarded for correct working.
- No marks are awarded when a wrong method leads to a correct answer.
- Incorrect working or statement following a correct answer is ignored.
- 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 the marking.
- If a correct answer is copied incorrectly from the working area to the answer area, then the marks are awarded fully.
- 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 does not oversimplify the question.