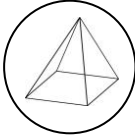


DEPARTMENT FOR CURRICULUM, LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit
End of Primary Benchmark
2019

MATHEMATICS MARKING SCHEME

MENTAL PAPER

(1 mark each c.a.o.)

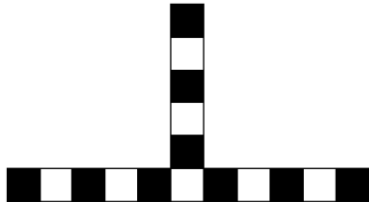
1.	1000
2.	90
3.	14
4.	72
5.	360
6.	4010
7.	265
8.	'Always even' ticked
9.	
10.	12
11.	4•50
12.	20
13.	1520
14.	201
15.	15 or 30 or 45 (or any other multiple of 3, 5 and 15)
16.	26•8
17.	800
18.	27
19.	35
20.	24

WRITTEN PAPER

Question No.	Answers and Requirements	Marks	Additional Guidance									
1. a)	300	1	c.a.o.									
b)	12	1	c.a.o.									
c)	322	1	c.a.o.									
d)	102	1	c.a.o.									
2.	3, 4, 6, 12 (in any order)	1, 1, 1, 1	Award 1 mark for each correct factor.									
3. a)	5•6	1	c.a.o.									
b)	0•36	1	c.a.o.									
c)	9	2	c.a.o.									
4. a)	$1\frac{4}{5}$ and $3\frac{1}{5}$	2	c.a.o.									
b) i.	50%	1	c.a.o.									
ii.	80%	1	c.a.o.									
5. a)	3 coins of 20c + 1 coin of 10c + 1 coin of 5c	1	c.a.o.									
b)	75×10 €7•50	1 1	seen c.a.o.									
c)	$300 \div 75$ 4 tickets	1 1	seen [accept other valid methods] c.a.o.									
6. a)	... this is an equilateral triangle. ... all sides are equal.	1	Accept any valid reason.									
b)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Regular Polygons</th> <th>Irregular Polygons</th> </tr> </thead> <tbody> <tr> <td>Polygons that have one or more right angles</td> <td>A, E</td> <td>D</td> </tr> <tr> <td>Polygons that have no right angles</td> <td>F</td> <td>B, C</td> </tr> </tbody> </table>		Regular Polygons	Irregular Polygons	Polygons that have one or more right angles	A, E	D	Polygons that have no right angles	F	B, C	1, 1 1, 1	c.a.o. c.a.o.
	Regular Polygons	Irregular Polygons										
Polygons that have one or more right angles	A, E	D										
Polygons that have no right angles	F	B, C										

Question No.	Answers and Requirements	Marks	Additional Guidance
7. a)	2805 + 786 + 3456 + 250	1	seen (still award 1 mark for method if conversion/s is/are incorrect)
	7 kg 297 g	1	c.a.o.
b)	B	1	c.a.o.
c)	3456 - 250	1	seen (still award 1 mark for method if conversion/s is/are incorrect)
	3206 grams	1	c.a.o.
8. a)	S	1	c.a.o.
b)	N	2	c.a.o.
c)	NW	2	c.a.o.
9. a)	81	1	c.a.o.
b)	3459	2	c.a.o.
c)	267	2	c.a.o.
In 9a, b and c: Accept any other valid combinations, using number cards 1 to 9 only once.			
10. a)	$\frac{2}{5}$ of 200	1	seen
	€80	1	c.a.o.
b)	200 - 80	1	seen [f.t. from 10a]
	$\frac{1}{4}$ of 120	1	seen [f.t. from 10a]
	€30	1	c.a.o. [f.t. from 10a]
11. a)	i. Obtuse	1	c.a.o.
	ii. $180^\circ - 142^\circ$	1	seen
	38°	1	c.a.o.
b)	$90^\circ - 58^\circ$	1	seen
	32°	1	c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance
12. a)	$18 \cdot 5 \times 26$	1	seen
	481 m	1	c.a.o.
	b)		
	40×7	1	seen
	280 minutes	1	seen
	4 hours 40 minutes	1	c.a.o.
13. a) i.	26 cm	1	c.a.o.
	ii.		
	28 cm^2	1	c.a.o.
iii.	5 cm \times 3 cm rectangle shaded	2	c.a.o.
b)	$15 \div 2$	1	seen
	$7 \cdot 5 \text{ cm}^2$	1	c.a.o.
14. a) i.	200 visitors	1	c.a.o.
	ii.		
	correct bar drawn	1	c.a.o. [f.t. from 14ai]
b)	$850 \div 5$	1	seen
	170 visitors	1	c.a.o.
c)	75×3	1	seen
	225 children	1	c.a.o.
15. a)	15 minutes	1	c.a.o.
b)	$\frac{3}{4}$ hour	1	c.a.o.
c) i.	breakfast	1	c.a.o.
	ii.		
	shopping	1	c.a.o.
d)	2 hours 30 minutes	1	c.a.o.
	150 minutes	1	c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance
16. a)	13 squares	2	c.a.o.
b)		2	c.a.o.
c)	28 white squares 30 black squares	1 1	c.a.o. c.a.o.

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 the 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 does not oversimplify the question.