

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department of Curriculum Management

Educational Assessment Unit

End of Primary Benchmark 2017

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MATHEMATICS MARKING SCHEME

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MENTAL PAPER

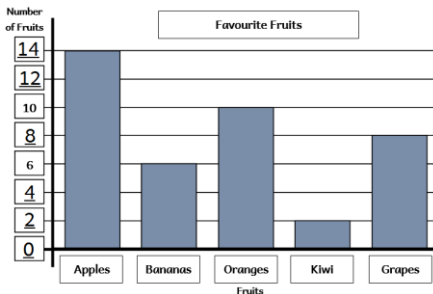
(1 mark each c.a.o.)

1.	31
2.	6
3.	2
4.	180
5.	9000
6.	901
7.	0.2
8.	7.5 or $7\frac{1}{2}$
9.	1200
10.	7.5 or $7\frac{1}{2}$
11.	10250
12.	1 or 4 or 9 or 16
13.	'75 cm' ticked
14.	35
15.	9
16.	108
17.	10,000
18.	10
19.	27
20.	1.75

WRITTEN PAPER

Question No.	Answers and Requirements	Marks	Additional Guidance																									
1. a)	400	1	c.a.o.																									
b)	3121	1	c.a.o.																									
c)	920	1	c.a.o.																									
d)	23	1	c.a.o.																									
2. a)	... 5, 7, ..., 13, ...	1	c.a.o.																									
b)	... 5•5, 5•75, 6, ...	1	c.a.o.																									
c)	... 32, 64, 128, ...	1	c.a.o.																									
d)	... 21, 28, 36, ...	1	c.a.o.																									
3.	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th colspan="2">divisible by 3</th> <th colspan="2">not divisible by 3</th> </tr> </thead> <tbody> <tr> <th>a multiple of 4</th> <td>12</td> <td>48</td> <td colspan="2">20</td> </tr> <tr> <th>not a multiple of 4</th> <td colspan="2">57</td> <td>43</td> <td>50</td> </tr> </tbody> </table>		divisible by 3		not divisible by 3		a multiple of 4	12	48	20		not a multiple of 4	57		43	50	1, 1 1, 1	c.a.o. c.a.o.										
	divisible by 3		not divisible by 3																									
a multiple of 4	12	48	20																									
not a multiple of 4	57		43	50																								
4.	<table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tbody> <tr><td colspan="5">920</td></tr> <tr><td colspan="2">620</td><td colspan="3">300</td></tr> <tr><td>421</td><td colspan="2">199</td><td colspan="2">101</td></tr> <tr><td>312</td><td>109</td><td>90</td><td colspan="2">11</td></tr> <tr><td>288</td><td>24</td><td>85</td><td>5</td><td>6</td></tr> </tbody> </table>	920					620		300			421	199		101		312	109	90	11		288	24	85	5	6	1 1 1, 1	c.a.o. c.a.o. c.a.o.
920																												
620		300																										
421	199		101																									
312	109	90	11																									
288	24	85	5	6																								
5. a) i)	B	1	c.a.o.																									
ii)	A	1	c.a.o.																									
iii)	D	1	c.a.o.																									
b)	'scalene' ticked	1	c.a.o.																									
c)	B	1	c.a.o.																									
6. a)	B	1	c.a.o.																									
b)	16 <sup>th</sup>	1 1	any valid attempt seen c.a.o.																									
c)	D	1 1	any valid attempt seen c.a.o.																									

Question No.	Answers and Requirements	Marks	Additional Guidance
7. a)	=	1	c.a.o.
b)	<	1	c.a.o.
c)	>	1	c.a.o.
d)	=	1	c.a.o.
e)	=	1	c.a.o.
8. a)	South or S	1	c.a.o.
b) i)	F	1	c.a.o.
ii)	A - G or C - B or E - F	1	c.a.o.
c)	A	1	any valid attempt
		1	c.a.o.
9. a)	750 g = 3 bags	1	seen or implied
	750 ÷ 3	1	seen or implied
	250 g	1	c.a.o.
b) i)	'1 kg' ticked	1	c.a.o.
ii)	'30 kg' ticked	1	c.a.o.
10. a)	pencil case	1	c.a.o.
b)	€32.50 - €26.25	1	seen or implied
	lunch box	1	c.a.o.
c)	875 × 14	1	seen or implied
	€122.50	1	c.a.o.
11. a) i)	50 cm	1	c.a.o.
ii)	36 cm <sup>2</sup> + 26 cm <sup>2</sup>	1	seen
	62 cm <sup>2</sup>	1	c.a.o.
b)	+ 16 cm <sup>2</sup>	1	seen
	78 cm <sup>2</sup>	1	c.a.o. (f.t. from 11aii)

Question No.	Answers and Requirements	Marks	Additional Guidance
12. a)	75	1	c.a.o.
b)	Daniel: 73	1	c.a.o.
	$80 \times 5 = 400$	1	seen or implied
	$400 - (73 + 78 + 82 + 70)$	1	seen or implied
	Manwel = 97	1	c.a.o.
13. a) i)	8 hours	1	c.a.o.
ii)	8 hours $\div$ 4	1	any valid attempt seen
	120 minutes	1	c.a.o.
iii)	'on personal care and free time' ticked	1	c.a.o.
b)	+ 1 hour 15 minutes / + $1\frac{1}{4}$ hours	1	seen or implied
	10:30	1	c.a.o.
14. a)		1	c.a.o.
b)	8	1	c.a.o. (f.t. from 14a)
c) i)	$\frac{6}{40}$	1	seen
	$\frac{3}{20}$	1	c.a.o.
ii)	$\frac{3}{20} \times 100$	1	seen or implied
	15 %	1	c.a.o. (f.t. from 14c)
15. a) i)	3.5 litres	2	c.a.o.
ii)	'15 glasses' ticked	1	any valid attempt seen
		1	c.a.o.
b)	$500 \text{ ml} \times 300$	1	seen or implied
	150 litres	1	c.a.o.

Question No.	Answers and Requirements	Marks	Additional Guidance
16. a)	€22•90 + €27•90	1	seen or implied
	€50•80	1	c.a.o.
b)	3 pairs of shoes + 2 bags + 2 winter sets = €100•80	2	any valid attempt seen
	2 bags + 2 winter sets = €55•80 3 pairs of shoes = €100•80 - €55•80 = €45 €45 ÷ 3 1 pair of shoes = €15	2	

**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.