

**END OF PRIMARY BENCHMARK**  
 Directorate for Quality and Standards in Education  
 Educational Assessment Unit

**MATHEMATICS (3<sup>rd</sup> June 2011)**

**MARKING SCHEME**

**MENTAL MATHEMATICS**

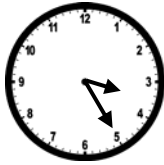
(1 mark each. c.a.o.)

1.	30	2.	6 or 6 faces
3.	48 or 48 h or 48 hours	4.	170
5.	60		
6.	991	7.	3700 or 3700g
8.	3	9.	45 or 45 min or 45 minutes
10.	3 or 3 lines	11.	100 or €100
12.	17·2	13.	475
14.	35	15.	$\frac{3}{4}$
16.	262	17.	30
18.	11 or 11cm	19.	20 or 20 minutes
20.	$9\frac{3}{4}$		

**WRITTEN PAPER**

No.	Requirements	Mark	Additional Guidance
1. a)	200	1	c.a.o.
b)	1200	1	c.a.o.
c)	78	1	c.a.o.
d)	106	1	c.a.o.
2. a)	8 cm	1	c.a.o.
b) i)	25 kg	1	c.a.o.
ii)	3 m	1	c.a.o.
c)	32,000 kg	1	c.a.o.
3 a)	The cuboid has 6 faces.	1	c.a.o.
	The cuboid has 12 edges.	1	c.a.o.
b)	It has 2 circular edges.	1	c.a.o.
	This shape has no vertices.	1	c.a.o.
4. a)	42·5 km	1	c.a.o.
b)	0·09 km	1	c.a.o.
c)	4 $\frac{1}{4}$ km	1	c.a.o.
d)	41·9 km	1	c.a.o.

No.	Requirements	Mark	Additional Guide	
5.	a)			
		a = 2.4 (given) b = 2.8 or 2.80 c = 3.2 or 3.20 d = 3.7 or 3.70 e = 3.8 or 3.80	1 1 1 1	c.a.o.
	b)	Valid marking of 3.4	1	c.a.o.
6.		$\underline{30} + 100 + 20$	1	c.a.o.
		$40 + \underline{10} + 100$	1	c.a.o.
		$\underline{80} + 20 + 50$	1	c.a.o.
		$\underline{10} + \underline{80} + \underline{60}$	1	f.t.
		$\underline{20} + 70 + 60$	1	f.t.
7.	a)	1800 ÷ 3 600 g	1 1	Seen or implied.
	b) i)	750 g	1	c.a.o.
	ii)	350 g x 5 = 1750 g 1750 g + 750 g = 2500 g	1 1	Accept any valid method.
8.		Identifying even numbers.	1	Seen or implied.  c.a.o.
		Crossing out the square number.	1	
		Identifying 8 as a factor.	1	
		Identifying numbers divisible by 5.	1	
		Choosing 40 between 32 and 40.	1	
9.	a)	24 + 8	1	c.a.o.
	b)	24 ÷ 8	1	c.a.o.
	c)	half of 24	1	c.a.o.
	d)	double 24	1	c.a.o.
		8 × 6	1	c.a.o.
10.	a)	Accept any valid method. 825 ÷ 25 33 rows	2 1	Seen or implied.
	b)	40 × 25 or 40 × 30 1000 people	1 1	Seen or implied. Accept 39 × 25 c.a.o.
11.	a)	Sunday 27 <sup>th</sup> ; Monday 28 <sup>th</sup>	2	c.a.o.
	b)	4 times	1	c.a.o.
	c)	17 <sup>th</sup> February	2	c.a.o.
12.	a) i)	36 cm <sup>2</sup>	1	c.a.o.
	ii)	12 + 12 + 12 + 9 + 3 + 3 + 3	1	Seen or implied.
		54 cm	1	
	b) i)	40° ± 2°	1	
	ii)	50 °	1	c.a.o.

No.	Requirements	Mark	Additional Guidance
13. a)	6 pupils	1	c.a.o.
b)	$12 - 8 =$ 4 pupils	1	c.a.o.
c)	$6 + 8 + 12 + 10 + 12 + 2$ 50 pupils	1 1	Seen or implied.
d)	10% of 50 5 pupils	1 1	Seen or implied.
14. a)	$\frac{250}{1000}$ or $\frac{25}{100}$ or $\frac{5}{20}$  $\frac{1}{4}$	1  1	Seen or implied.  c.a.o.
b)	1500 ml	1	c.a.o.
c) i)	Paul	1	c.a.o.
ii)	$30 \ell \div 1.5 \ell = 20$ or $1.5 \ell \times 2 = 3 \ell$ or $1.5 \ell \times 20 = 30 \ell$	2	Seen or implied. Accept any valid reason.
15. a)	$12:25 - 11:00 =$ 1:25 or 1h 25min	1 1	Seen or implied.
b) i)		1	c.a.o.
ii)	3:25 p.m.	1	c.a.o.
c)	$8:15 - 1:25 = 6:50$ 6:50 or 6:50 a.m.	1 1	Seen or implied.
16. a)	Scheme A	1	c.a.o.
b)	Valid working shown. Scheme B	1 1	c.a.o.
c) i)	Yes	1	c.a.o.
ii)	Scheme A - €20 – 400 msg Scheme B - €20 – 600 msg	2	Accept any valid reason

**Legend to Marking Scheme:**

c.a.o. correct answer only

f.t. follow through

-1 e.e.o.o. -1 for each error or omission

**Other guidelines:**

1. No mark in the marking scheme is sub-divisible.
2. Even if no working is shown, a correct answer scores full marks.
3. Incorrect answers – even though nearly correct – score no marks.
4. Incorrect working or statement following a correct answer is ignored

5. 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.
6. If the answer is copied from the working area to the answer area incorrectly, then the marks are awarded fully.
7. Misread loses only the final accuracy mark but f.t. may be allowed on subsequent parts. The method marks may still be earned provided that the part question is not oversimplified.