

Grade 7 : Mathematics June Examination 2015
Memorandum
Exemplar Paper 1

General marking note:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. Apply CA when applicable.

Section A			
		Clarification	Mark
1.	C✓		1
2.	B✓		1
3.	C✓		1
4.	A✓		1
5.	C✓		1
6.	B✓		
			5
Section B			
1.1	8 404 394✓✓		2
1.2	7 967 826✓✓		2
1.3	$\begin{array}{r} 7\,095 \\ \times 326 \\ \hline 42\,570 \\ 141\,900 \\ 212\,850 \\ \hline 2312970 \end{array}$	Apply CA	4
1.4	204 331✓✓	Any method	2
1.5	(a) 1✓		1
	(b) $(28 - 5)✓ = 23✓$		2
			13
2.1	1; 2; 3; 4; 6; 9; 12; 18; 36✓✓	Full marks if all factors correct	2
2.2	2; 3✓✓	1 mark each	2
2.3	4 : 4; 8; 12; 16; 20; 24; 28; 32; 36✓ 9: 9; 18; 27; 36✓ 12: 12; 24; 36; ✓ LCM - 36✓		4
2.4	$a^3✓$		1
2.5.1	$8✓ + 11✓ + 4✓ = 23✓$	Apply CA	4
2.6	$2^4✓ = 16✓$	1 mark per answer	2
			15

3.1	25:10✓ or 5:2✓		1
3.2	$\frac{25}{35}$ ✓		1
3.3	$\frac{5}{7}$ ✓		1
3.4	$\frac{20}{25}$ ✓ = $\frac{80}{100}$ ✓ = 80% ✓		3
			6
4.1.1	0,12✓		1
4.1.2	60%✓		1
4.1.3	$\frac{65}{100}$ of $\frac{13}{20}$ ✓		1
4.2	(a) $\frac{13}{3}$ ✓ –	Both numerator and denominator correct	1
	(b) $4\frac{1}{6}$ ✓	Both fraction and whole number correct	1
4.3	$\frac{20}{30}$ ✓ = $\frac{12}{18}$ ✓	Both numerator and denominator correct	2
4.4	(a) $2\checkmark (\frac{3}{15}\checkmark + \frac{10}{15}\checkmark - \frac{6}{15}) = 2\frac{7}{15}\checkmark$	Apply CA	4
	(b) $\frac{9}{4}\checkmark \times \frac{4}{3}\checkmark = 3\checkmark$	Apply CA	3
			14

5.1	(a) 49✓ (b) 48,7✓		1 1
5.2.1	$\frac{2}{3} + \frac{1}{5} = \frac{13}{15}$ ✓✓		2
5.2.2	Yes, ✓ $\frac{1}{3} = \frac{5}{15}$ en $\frac{13}{15} + \frac{5}{15} = \frac{18}{15}$ and $\frac{18}{15}$ is more than one whole✓✓	Consider other logical reasons	3
5.3	$\frac{20}{100} \times R300$ or $\frac{80}{100} \times \frac{300}{1} = R240$ ✓✓ = R60✓ R300 – R60✓ = R240✓	Apply CA	3
			10
6.1	3✓ 7✓ 17✓ 20✓		4
6.2	A 18✓ B 24✓ C 7✓		3
			7
		Total	70