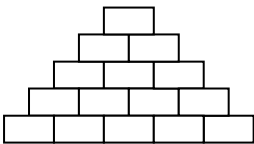


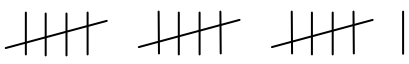
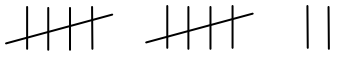
ANNUAL NATIONAL ASSESSMENTS 2010
GRADE 6 MATHEMATICS – ENGLISH
MEMORANDUM

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.

Question	Expected Answer	Marks
1.	1.1 120	1
	1.2 19	1
	1.3 $\frac{3}{5}$	1
2.	✓ 7, 025	1
3.	4 283 164	1
4.	4.1 3 or three or 3U	1
	4.2 3 000 or three thousand or 3Th	1
5.	1; 2; 3; 4; 6; 8; 12; 24 Note: All factors must be listed for 2 marks. If any four correct factors are listed, give 1 mark.	2
6.	6.1 4 600	1
	6.2 5000	1
7.	$\frac{10}{180} \times 180 = 18$ ✓ Note: Full marks for answer only.	2
8.	8.1 10 372 ✓ Correct Method ✓ Accuracy of answer	2
	8.2 2 553 ✓ Correct Method ✓ Accuracy of answer	2
	8.3 98 969	1
	8.4 141 302	1
	8.5 165 ✓ Correct Method ✓ Accuracy of answer	2
	8.6 $2010 \times (20 + 4) = (2010 \times 10 \times 2) + (2010 \times 4)$ $= 40200 + 8040$ $= 48240$ Note: Accept any multiplication method.	4
9.	9.1 $197 + 70 \div 5 = 197 + 14 = 211$ ✓ Note: Full marks for answer only.	3
	9.2 53,60 ✓ Note: Correct digits and decimal place. No marks for Incorrect digits. Full marks for answer only.	2

10.	10.1	$\frac{83}{10} - \frac{21}{5} = \frac{83-42}{10} = \frac{41}{10} = 4\frac{1}{10}$	Note: Give 1 mark for correct LCD.	4
	10.2	$\frac{11}{2} + \frac{25}{8} + \frac{3}{4} = \frac{44+25+6}{8} = \frac{75}{8} = 9\frac{3}{8}$	Note: Give 1 mark for correct LCD	4
11.		Number of litres = $90 \div 10 \times 2 = 18$ litres		3
12.		$330 \div 11 = 30$ The cost of six copies = $30 \times 6 = \text{R}180$	Note: Full marks for answer only	3
13.		$12 \times 2 - 3 = 21$		2
14.		53		1
15.		35		1
16.		 <p>Note: Give 1 mark for drawing only 5 rows of blocks using the same pattern (pyramid) and 1 mark for drawing the correct number of blocks in each row.</p>		2
17.		10 (4 single Δ 's + 3 double Δ 's + 2 treble Δ 's + 1 quadruple Δ 's) ✓ ✓ Note: for indicating an answer from 4 to 9, give one mark.		2
18.	18.1	Square; rhombus	Note: Accept either answer.	1
	18.2	Rectangle; parallelogram	Note: Accept either answer. Also accept square and rhombus as solutions	1
19.	19.1	6		1
	19.2	4		1
	19.3	24		1
20.	20.1	cylinder		1
	20.2	Rectangular prism		1
	20.3	hexagon		1
	20.4	pentagon		1
21.	21.1	5 hours 40 minutes		2
	21.2	b. or 20		1

22.	22.1 22.2	Animal	Tally marks	Total	2
		Lion		16	
		Giraffe		12	
23.	23.1	2 : 3 or $\frac{2}{3}$ ✓ correct digits ✓ correct notation			2
	23.2	✓ 4 out of 12 or 1 out of 3			2
	23.3	b. or possible			1
24.	24.1	7			1
	24.2	6			1
25.	25.1	90			1
	25.2	60			1
Total					75