



ANNUAL NATIONAL ASSESSMENT 2012
GRADE 5 MATHEMATICS
TEST
MEMORANDUM

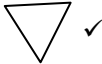
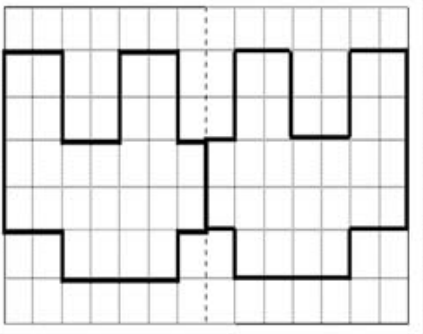
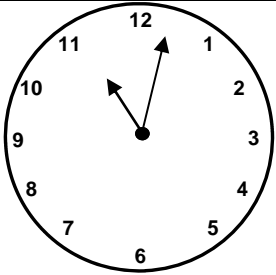
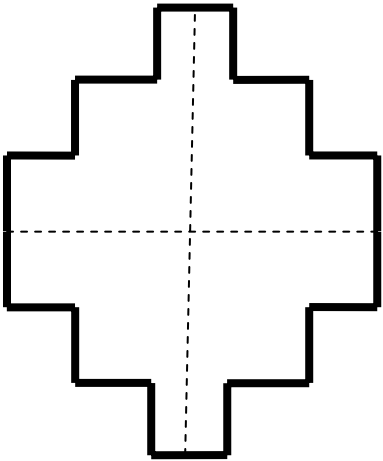
MARKS: 60

This memorandum consists of 3 pages.

Important information:

1. Give full marks if only correct answers are given, unless stated otherwise.
2. Accept any mathematically correct solution that is not included in the memorandum.

QUESTION	EXPECTED ANSWERS	CLARIFICATION	MARKS	TOTAL
1.	1.1 B ✓		1	5
	1.2 D ✓		1	
	1.3 C ✓		1	
	1.4 B ✓		1	
	1.5 B ✓		1	
2.	2.1 29 620✓		1	2
	2.2 30 000✓		1	
3.	3.1 3 OR 3 units OR 3U✓		1	2
	3.2 3 000 OR 3 thousand OR 3Th✓		1	
4.	15✓		1	1
5.	$3\frac{3}{7}$ ✓		1	1
6.	6.1 a = 2✓		1	2
	6.2 b = 12 ✓		1	
7.	7.1 $\begin{array}{r} 57\,436 \\ + 23\,521 \\ \hline 80\,957 \end{array}$ ✓✓	Accept any other correct method.	2	14
	7.2 $\begin{array}{r} 46\,436 \\ - 26\,762 \\ \hline 19\,674 \end{array}$ ✓✓	Accept any other correct method.	2	
	7.3 $\begin{array}{r} 876 \\ \times 64 \\ \hline 3\,504 \\ + 52\,560 \\ \hline 56\,064 \end{array}$ ✓	Accept any other correct method.	3	
	7.4 $\begin{array}{r} 14 \\ 54 \overline{)756} \\ \underline{-54} \\ 216 \\ \underline{-216} \\ 000 \end{array}$ ✓	Accept any other correct method. Correct quotient: 1 mark Correct calculation: 1 mark	2	
	7.5 $18\frac{3}{4}$ or $\frac{75}{4}$ ✓✓✓ OR $7\frac{1}{2} + 10\frac{1}{2} + \frac{3}{4} = 17 + \left(\frac{1}{2} + \frac{1}{2} + \frac{3}{4}\right) = 17 + 1 + \frac{3}{4} = 18\frac{3}{4}$ OR $7\frac{1}{2} + 10\frac{1}{2} + \frac{3}{4} = \frac{15}{2} + \frac{21}{2} + \frac{3}{4} = \frac{30 + 42 + 3}{4} = \frac{75}{4} = 18\frac{3}{4}$	Answer only, give full marks.	3	

	7.6	25 249 - 23 158 = 2 091 ✓	Accept any other correct method.	2	
8.		1 hr 10 min ✓ 12:30 ✓		1 1	2
9.		10 decades ✓		1	1
10.		 ✓		1	1
11.			Note: No partial marks should be awarded in this question.	2	2
12.			Note: Hour hand drawn between 11 and 12 and the minute hand between 12 and 1. ✓ The minute hand must be longer than the hour hand. ✓	2	2
13.		Triangle ✓ Hexagon ✓	Any order	1 1	2
14.		80 km/h x 6 h ✓ = 480 km ✓		2	2
15.		19 cm ² ✓		1	1
16.		4,557 kg ✓		1	1
17.		No of boys = $\frac{40}{1} \times \frac{1}{2} = 24$ ✓		2	2
18.			✓1 mark for each line of symmetry.	2	2

19.	19.1	<div><div><div>●</div><div>●</div><div>●</div><div>●</div><div>●</div></div><div><div>●</div><div>●</div><div>●</div><div>●</div><div>●</div></div><div><div>●</div><div>●</div><div>●</div><div>●</div><div>●</div></div></div> ✓		1	2									
	19.2	18 ✓		1										
20.		Square-based pyramid✓ 5 faces ✓		1 1	2									
21.		250 mℓ when mixed with water will make 1ℓ 250 mℓ x 5 ✓ = 1 250 mℓ = 1,250 ℓ✓ or 1 $\frac{1}{4}$ ℓ		2	2									
22.	22.1	Possible ✓		1	2									
	22.2	Impossible✓		1										
23.	<table><tr><td>LEARNERS</td><td>TALLY MARKS</td><td>TOTAL</td></tr><tr><td>Girls</td><td><div><div><div> </div><div> </div><div> </div><div> </div><div> </div></div></div></td><td>23</td></tr><tr><td>Boys</td><td><div><div><div> </div><div> </div><div> </div><div> </div></div></div>✓</td><td>14 ✓</td></tr></table>			LEARNERS	TALLY MARKS	TOTAL	Girls	<div><div><div> </div><div> </div><div> </div><div> </div><div> </div></div></div>	23	Boys	<div><div><div> </div><div> </div><div> </div><div> </div></div></div> ✓	14 ✓	2	2
LEARNERS	TALLY MARKS	TOTAL												
Girls	<div><div><div> </div><div> </div><div> </div><div> </div><div> </div></div></div>	23												
Boys	<div><div><div> </div><div> </div><div> </div><div> </div></div></div> ✓	14 ✓												
24.	12✓✓ (4 x 3)	If answer is 6, give 1 mark.	2	2										
25.	25.1	Position (a) B1 OR 1B✓	1	3										
		Position (b) H6 OR 6H✓	1											
	25.2	J9 OR 9J✓	1											
TOTAL:				60										