

**TOM NEWBY SCHOOL
GRADE 7 MATHEMATICS
TERM 4 FORMAL ASSESSMENT**

MEMORANDUM

<u>Question 1</u>	<u>Answer</u>	<u>Mark allocation</u>	<u>Level</u>
1.1	C ✓	1	1
1.2	B ✓	1	1
1.3	C ✓	1	1
1.4	B ✓	1	1
1.5	B ✓	1	1
1.6	A ✓	1	1
1.7	B ✓	1	1
1.8	True ✓	1	1
1.9	False ✓	1	1
1.10	True ✓	1	1

<u>Question 2</u>	<u>Answer</u>	<u>Mark allocation</u>	<u>Level</u>
2.1	2.1.1) Co-efficient ✓ 2.1.2) Variable ✓ 2.1.3) Constant ✓	3	1
2.2	2.2.1) $3 \times 2 + 2 \times 5 - (-3)$ ✓ $6 + 10 + 3$ ✓ $= 19$ ✓ 2.2.2) $4 \times (-3) + 3 \times 5 = -12 + 15$ ✓ $= 3$ ✓ 2.2.3) $5^2 - 3^2$ ✓ $= 25 - 9$ ✓ $= 16$ ✓	8	2
2.3	2.3.1) $3x = 14 - 2x = 12 / 3$ ✓ $x = 4$ ✓	8	2

	2.3.2) $28 - 3 = 5x$ ✓ $25 / 5 = x$ ✓ $5 = x$ ✓ 2.3.3) $\frac{27}{x} = 11 - 8$ ✓ $27 / 3 = x$ ✓ $9 = x$ ✓		
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Question 3	Answer	Mark allocation	Level
3.1.1	C ✓	1	2
3.1.2	Isosceles ✓	1	2
3.1.3	A ✓	1	2
3.1.4	Equilateral ✓	1	2
3.1.5	B ✓	1	2
3.1.6	Right angled, scalene ✓	1	2
3.2.1	Trapezium ✓	15	2
3.2.2	Rectangle, Square, Rhombus, Parallelogram. ✓		
3.2.3	Square, Rhombus ✓		
3.2.4	Kite, Square, Rhombus ✓		
3.3	3.3.1 Chord ✓ 3.3.2 Segment ✓ 3.3.3 Arc ✓ 3.3.4 Diameter ✓ 3.3.5 Radius ✓		

Question 4	Answer	Mark allocation	Level
4.1	$SA = 2 (5 \times 4) = 2 \times$ $20 = 40$ ✓ $2 (4 \times 2) = 2 \times 8 =$ 16 ✓ $2 (5 \times 2) = 2 \times 10 =$ 20 ✓ $40 + 16 + 20$ $= 76 \text{ m}^2$ ✓	4	2

4.2	$V = l^3$ ✓ $30 \times 30 \times 30$ ✓ $= 27000 \text{ mm}^3$ ✓ $= 27 \text{ cm}^3$ ✓	4	2
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Question 5	Answer	Mark allocation	Level
5.1	4×2 ✓✓	2	2
5.2	2 marks for correct translation ✓✓	2	2
5.3	(8L; 6D) ✓✓	2	3

Question 6	Answer	Mark allocation	Level
6.1.1	9 hours ✓	1	3
6.1.2	25 mm ✓	1	3
6.1.3	Linear ✓	1	3
6.2.1	20 ✓	1	2
6.2.2	$38 - 10 = 28$ ✓	1	2
6.2.3	27 ✓	1	2
6.2.4	$25 + 27 = 52 / 2 = 26$ ✓	1	3
6.2.5	$61 + 194 + 239 = 494 / 2 = 24,7$ ✓✓	2	3

Question 7	Answer	Mark allocation	Level
7.1	16 ✓	1	3
7.2	216 ✓	1	3
7.3	11 ✓	1	3
7.4	-3 ✓	1	2
7.5	-21 ✓	1	2
7.6	-42 ✓	1	2
7.7	-54 ✓	1	3
7.8	-8 ✓	1	3

Total: 75