

GRADE 6 MATHEMATICS TEST

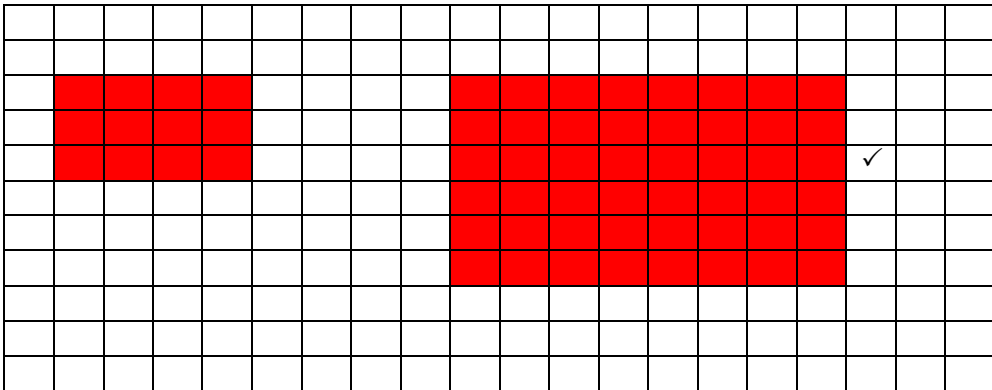
TOTAL MARKS: 40

TERM 4

2021

MEMORANDUM

Question		Expected answer		Mark allocation				
1	1.1		B ✓	1				
	1.2		C ✓	1				
	1.3		A ✓	1				
	1.4		D ✓	1				
	1.5		C ✓	1				
2	2.1	2.1.1	Square ✓	1				
		2.1.2	Right angles ✓	1				
		2.1.3	Hexagon ✓	1				
		2.1.4	Acute angles ✓	1				
	2.2	2.2.1	Cube / Square prism / Square-based prism ✓	1				
		2.2.2	8 vertices ✓	1				
		2.2.3	5 faces ✓	1				
		2.2.4	8 edges ✓	1				
	2.3		<table><tr><th>Similarity</th><th>Difference</th></tr><tr><td> - Both are pyramids. - Both have flat faces. - Their faces meet at an apex. ✓ </td><td> - The base of a tetrahedron is a triangle whereas the base of a square based pyramid is a square. - The faces of a tetrahedron are all triangles whereas in a squared based pyramid only lateral faces are triangles. - Tetrahedron has 4 vertices; square pyramid has 5 vertices. - Tetrahedron has 4 faces; square based pyramid has 5 faces. ✓ </td></tr></table> NB: Award the mark for any one correct answer - similarity and difference	Similarity	Difference	- Both are pyramids. - Both have flat faces. - Their faces meet at an apex. ✓	- The base of a tetrahedron is a triangle whereas the base of a square based pyramid is a square. - The faces of a tetrahedron are all triangles whereas in a squared based pyramid only lateral faces are triangles. - Tetrahedron has 4 vertices; square pyramid has 5 vertices. - Tetrahedron has 4 faces; square based pyramid has 5 faces. ✓	2
	Similarity	Difference						
	- Both are pyramids. - Both have flat faces. - Their faces meet at an apex. ✓	- The base of a tetrahedron is a triangle whereas the base of a square based pyramid is a square. - The faces of a tetrahedron are all triangles whereas in a squared based pyramid only lateral faces are triangles. - Tetrahedron has 4 vertices; square pyramid has 5 vertices. - Tetrahedron has 4 faces; square based pyramid has 5 faces. ✓						
	3	3.1		5 250 ℓ + 3 135 ℓ + 10 500 ℓ ✓ = 18 885 ℓ ✓ Mrs Zikode uses R18 885 ℓ per month.	2			
			OR Any other correct method					

	3.2		$150\text{ km} \times 3 \checkmark$ $= 450\text{ km} \checkmark$ The bus will travel 450 km	OR Any other correct method	2
4	4.1	4.1.1	9 hours $\checkmark$		1
		4.1.2	8 : 00 am / 08 : 00 / 8 o'clock $\checkmark$		1
	4.2	4.2.1	6 ℓ $\checkmark$		1
		4.2.2	5 650 g / 5 kg 650 g $\checkmark$		1
		4.2.3	90 mm $\checkmark$		1
	4.3	4.3.1	Rotation $\checkmark$		1
		4.3.2	Translation $\checkmark$		1
	4.4				1
5.	5.1		Perimeter = $l + b + l + b$ $= 7\text{ m} + 4\text{ m} + 7\text{ m} + 4\text{ m} \checkmark$ $= 22\text{ m} \checkmark$	/ $2(l + b \checkmark$ $= 2(7\text{ m} + 4\text{ m}) \checkmark$ $= 2(11\text{ m}) = 22\text{ m} \checkmark$	3
	5.2		Area = $l \times b \checkmark$ $= 5\text{ cm} \times 5\text{ cm} \checkmark$ $= 25\text{ cm}^2 \checkmark$		3
	5.3		Volume = $l \times b \times h \checkmark$ $= 5\text{ mm} \times 3\text{ mm} \times 4\text{ mm} \checkmark$ $= 60\text{ mm}^3 \checkmark$		3
6.	6.1	6.1.1	Soccer $\checkmark$		1
		6.1.2	Netball $\checkmark$		1
		6.1.3	10 girls $\checkmark$ + 4 boys $\checkmark$ / 14 learners $\checkmark\checkmark$ = 14 learners		2
TOTAL MARKS					40