Mathematics · Grade 7

Memorandum · Term 1–4

TOTAL 90 MARKS

Marking guidelines

1. Award method marks even where the final answer is wrong.
2. Accept any correct method, including one that differs from the memorandum.
3. An answer without the unit loses the unit mark, not the whole question.
4. Where a question asks for two or more items, award one mark per correct item.
5. Do not deduct marks for handwriting, provided the answer can be read.

Question	Answer	Marks	Marking note
QUESTION 1 · Multiple choice · 6 marks			
1.1	b. −5	**1**	
1.2	c. 4 × 4 × 4	**1**	
1.3	a. 15	**1**	
1.4	a. −5	**1**	
1.5	b. parallel	**1**	
1.6	a. median	**1**	
QUESTION 2 · Integers and exponents · 10 marks			
2.1	a. −4 b. 1 c. −16 d. 14	**4**	*1 mark each.*
2.2	a. 27 b. 25 c. 52	**3**	*1 mark each.*
2.3	2 × 2 × 7 × 11	**3**	*2 marks for the method, 1 for the answer.*
QUESTION 3 · Numbers in context · 11 marks			
3.1	HCF = 28; LCM = 168	**2**	*1 mark each.*
3.2	840 ÷ 100 × 20 = R168	**3**	*2 marks for the method, 1 for the answer.*
3.3	a. −20 ; −12 ; −3 ; 0 ; 5 ; 7 b. >	**3**	*2 marks for a. (1 if one number is out of place), 1 mark for b.*

Question	Answer	Marks	Marking note
3.4	a. $\frac{5}{8}$ = 0,625 = 62,5% b. $\frac{3}{4}$ = 0,75 = 75% c. $\frac{1}{5}$ = 0,2 = 20%	**3**	*1 mark per fraction if both forms are correct.*
QUESTION 4 · Algebraic expressions · 10 marks			
4.1	a. The position of the term (the term number) b. $2 \times 25 - 1 = 49$ c. $2n - 1 = 79 \rightarrow n = 40$, the 40th term d. $x + 25$ (accept $25 + x$)	**4**	*1 mark each.*
4.2	a. $3(3) + (-9) = 0$ b. $3^2 - (-9) = 18$	**3**	*1 mark for the substitution, 1 per answer.*
4.3	a. $n + 5$ b. $12n$ c. $n - 6$	**3**	*1 mark each.*
QUESTION 5 · Equations and patterns · 13 marks			
5.1	a. $8x = 64$; $x = 8$ b. $x + 9 = 13$; $x = 4$	**3**	*2 marks for a., 1 for b.*
5.2	a. 25 b. The position number multiplied by itself (term = n^2) c. 144	**3**	*1 mark each.*
5.3	$x = 1 \rightarrow y = -5$; $x = 3 \rightarrow y = 1$; $x = 6 \rightarrow y = 10$; $x = 10 \rightarrow y = 22$	**4**	*1 mark per block.*
5.4	a. $120 + 3 \times 14 = R162$ b. Cost = $120 + 3n$ (accept any letter for the cost, e.g. $k = 120 + 3n$) c. $120 + 3 \times 45 = R255$	**3**	*1 mark each.*
QUESTION 6 · Lines and 3D objects · 9 marks			
6.1	4 faces; 6 edges; 4 vertices	**2**	*2 marks if all three are correct; 1 if two are correct.*
6.2	a. Triangular prism b. 6	**2**	*1 mark each.*
6.3	Any two: both have 6 faces; both have 12 edges; both have 8 vertices; all their angles are right angles; opposite faces are equal (congruent).	**2**	*1 mark each.*
6.4	a. Parallel lines run alongside each other and never meet. b. Perpendicular lines cross at 90°. c. A line segment has two end points; a ray has one end point and carries on.	**3**	*1 mark each.*
QUESTION 7 · Shapes and transformations · 13 marks			
7.1	Three equal sides = equilateral; Two equal sides = isosceles; One angle of 90° = right-angled	**3**	*1 mark each.*
7.2	a. Sector b. Radius c. Diameter	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
7.3	A (rectangle): 2 B (equilateral triangle): 3 C (parallelogram): 0	**3**	*1 mark each.*
7.4	The image is the same shape, flipped, with every vertex the same distance from m as in S.	**2**	*1 mark for the correct flipped shape, 1 for every vertex at the same distance from m.*
7.5	Exactly one pair of parallel sides; it has four sides and four angles (a quadrilateral). Accept any two correct properties.	**2**	*1 mark each.*
QUESTION 8 · Measurement · 9 marks			
8.1	a. $2 \times (16 + 10) = 52$ cm b. $16 \times 10 = 160$ cm² c. $16 \times 10 \times 5 = 800$ cm³	**4**	*1 mark for the perimeter, 1 for the area, 2 for the volume.*
8.2	a. 8 m² b. 1,25 ℓ c. 3 200 m	**3**	*1 mark each.*
8.3	Floor = 48 m²; each tile = 0,25 m²; $48 \div 0{,}25 = 192$ tiles	**2**	*1 mark for the areas, 1 for the answer.*
QUESTION 9 · Data Handling · 9 marks			
9.1	a. Soccer b. 25% c. 50% of 120 = 60 d. 12,5% of 120 = 15 e. $\frac{1}{8}$	**5**	*1 mark each.*
9.2	a. The median (R70) b. The R700 is much bigger than the rest and pulls the mean up (mean ≈ R158,57).	**2**	*1 mark each.*
9.3	$4/8 = \frac{1}{2}$; 50%	**2**	*1 mark for the fraction, 1 for the percentage.*

Total **90 marks**



Free quizzes

Finished this test? Keep practising online!

More than 12 000 free questions for Grades 4 to 7, in every subject and aligned to CAPS. After every answer your child gets a short explanation. No registration needed, and it works on a phone.

meerkatskool.co.za

Scan with your phone to start right away

A small request from us

Thank you for supporting MeerkatSkool! We are a small South African business, and every paper is put together with great care.

This test and memo are a free sample: feel free to share them with other parents and teachers. Ask us about the full booklet: meerkatskool.co.za or WhatsApp 066 462 7629.

Thank you!
The MeerkatSkool team

Free quizzes
meerkatskool.co.za

Email
info@meerkatskool.co.za

WhatsApp and calls
066 462 7629

Help us improve

Found a mistake in this test? WhatsApp us straight away. We fix it within 24 hours and send you the new version.

Scan to WhatsApp us · 066 462 7629