MeerkatSkool

PRACTICE TEST

Practice test · Term 1–4
Version 1.6 · 21 October 2026

Mathematics · Grade 5

Patterns, Functions and Algebra

Term 1–4 | 8 questions | CAPS-aligned

TOTAL 41 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. Read all the questions carefully before you begin writing.
2. Answer all the questions on the question paper itself.
3. Show all your working where the question asks for it.
4. Write neatly. Work that cannot be read cannot be marked.
5. You may use a pencil and a ruler for drawings.
6. Calculators are not allowed.

Question	Content of the question	Marks	Obtained
1	Multiple choice	3	
2	Matching	4	
3	Patterns and number sentences	9	
4	Number sentences and number patterns	5	
5	Input and output	6	
6	Number sentences	4	
7	Geometric patterns	5	
8	Describe the rule	5	
	Total	**41**	
	Percentage		%

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1 Multiple choice

3 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

Which number comes next? 5 ; 10 ; 15 ; 20 ; _____

a 22 b 25 c 30

The pattern adds 5 each time. 20 + 5 = 25, so the answer is b. Circle the b.

This example does not count for marks. It only shows you how to answer.

1.1 Which number comes next? 4 ; 9 ; 19 ; 39 ; _____ **(1)**

(a) 59 (b) 79 (c) 69

1.2 Which number comes next? 12 ; 24 ; 36 ; 48 ; _____ **(1)**

(a) 54 (b) 62 (c) 60

1.3 What is the rule? 100 ; 91 ; 82 ; 73 **(1)**

(a) Subtract 9 (b) Subtract 8 (c) Add 9

2 Matching

4 marks

Match the description in COLUMN A with the correct word in COLUMN B. Write only the LETTER. One word is left over.

2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. The rule that makes a pattern continue	A. Output	1 = _____
2. The number that goes into a flow diagram	B. Factor	2 = _____
3. The number that comes out of a flow diagram	C. Input	3 = _____
4. One number in a pattern	D. Rule	4 = _____
	E. Term	

3 Patterns and number sentences

9 marks

3.1 Extend the following number pattern: 2 ; 5 ; 14 ; _____ ; _____ **(2)**

What is the rule of the pattern?

3.2 Look at the matchstick pattern below. Complete the table. **(2)**

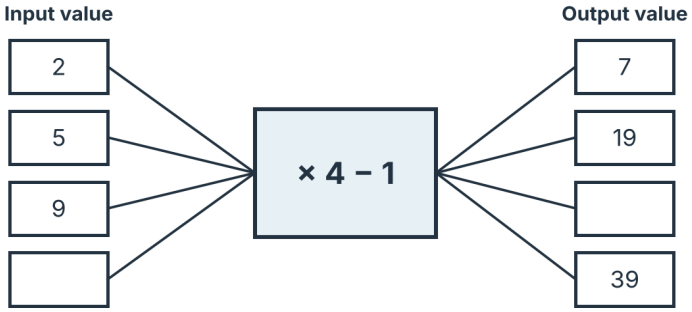


Term 1 Term 2 Term 3

Number of triangles	1	2	3	4	10
Number of matchsticks	3	5	7		

3.3 Solve: 4 × _____ − 9 = 31. Show your working. **(2)**

3.4 Fill in the two missing values in the flow diagram. Then use the rule to work out the output when the input is 7. **(3)**



4 Number sentences and number patterns

5 marks

4.1 Extend the pattern and write the rule: 3 ; 6 ; 12 ; 24 ; _____ ; _____ **(2)**

4.2 Fill in the missing number: $26 \times 9 = 9 \times$ _____ **(1)**

4.3 The rule is: multiply by 9 and then subtract 7. a. Lerato says that input 4 gives output 29. Check her answer by substitution. b. Write the rule as a number sentence. Use ☐ for the input and △ for the output. **(2)**

5 Input and output

6 marks

5.1 The rule is: multiply by 4 and then subtract 3. Complete the table. **(4)**

Input	2	5	8	12
Output				

5.2 If the output is 37, what was the input? Show your working. **(2)**

6 Number sentences

4 marks

6.1 Write the missing number in the block. **(4)**

a. ☐ + 238 = 500 b. 1 000 − ☐ = 675

c. ☐ × 8 = 96 d. 144 ÷ ☐ = 12

7 Geometric patterns

5 marks

7.1 Look at the pattern of blocks below. Draw Term 4 in the space. **(2)**

Term 1: ■■ **Term 2:** ■■■■■ **Term 3:** ■■■■■■■■

7.2 How many blocks will Term 5 have? **(1)**

7.3 Write down the rule of the pattern. **(2)**

8 Describe the rule

5 marks

8.1 Look at the pattern: 3 ; 8 ; 13 ; 18 ; _____ ; _____ **(3)**

a. Write the next TWO numbers: _____ _____

b. Describe the rule in your own words: _____

8.2 What is the 10th number in the same pattern? Show your working. **(2)**

Total **41 marks**



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