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PRACTICE TEST

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

Mathematics · Grade 6

Numbers, Operations and Relationships

Term 1–4 | 22 questions | CAPS-aligned

TOTAL 177 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	7	
2	Matching	4	
3	True or false	6	
4	Short questions	5	
5	Whole numbers	10	
6	Rounding and expanded notation	4	
7	Multiples and factors	6	
8	Operations	14	
9	Multiply and divide	6	
10	Fractions, decimals and percentages	10	
11	Fractions, decimals and percentages	10	
12	Ratio and rate	6	

Question	Content of the question	Marks	Obtained
13	Rate: rand per kilogram	3	
14	Financial mathematics	9	
15	Order of operations and estimating	9	
16	Large numbers	7	
17	Operations with large numbers	12	
18	Multiples, factors and prime numbers	9	
19	Fractions and decimals	8	
20	Percentages and financial problems	8	
21	Ratio, rate and problem solving	12	
22	More number work	12	
	Total	177	
	Percentage		%

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1 Multiple choice

7 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

What is 25% of 100?

a 20 b 25 c 50

25% means 25 out of every 100, so the answer is b. Circle the b.

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

1.1 What is the value of the 5 in 352 108 694? **(1)**

(a) 5 000 000 (b) 50 000 000 (c) 500 000 000

1.2 Which one of the following is equal to 0,75? **(1)**

(a) $\frac{3}{8}$ (b) $\frac{3}{4}$ (c) $\frac{3}{5}$

1.3 What is 20% of 350? **(1)**

(a) 35 (b) 70 (c) 175

1.4 What is the value of $6 \times 6 + 3 \times 3 \times 3$? **(1)**

(a) 63 (b) 45 (c) 99

1.5 Which number is the smallest? **(1)**

(a) 2 070 (b) 2 007 (c) 2 700

1.6 The ratio 15 : 35 in its simplest form is: **(1)**

(a) 3 : 7 (b) 5 : 7 (c) 1 : 2

1.7 What is the lowest common multiple (LCM) of 4 and 10? **(1)**

(a) 40 (b) 20 (c) 14

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. A number with exactly two factors: 1 and itself	A. Percentage	1 = _____
2. The smallest number that is a multiple of two numbers	B. Perimeter	2 = _____
3. A fraction out of 100	C. LCM	3 = _____
4. Two quantities compared with each other	D. Prime number	4 = _____
	E. Ratio	

3 True or false

6 marks

3.1 State whether each statement is TRUE or FALSE. **(6)**

Statement	True / False
1. 9 × 7 = 63	
2. The highest common factor (HCF) of 12 and 18 is 6	
3. 0,25 = $\frac{1}{4}$	
4. 1 is a prime number	
5. 6 748 rounded off to the nearest 5 is 6 750	
6. 10% of 90 is 10	

4 Short questions

5 marks

4.1 Write the largest number that can be made with the digits 3, 8, 0 and 5. **(1)**

_____

4.2 What is the place value of the 6 in 768 402 315? **(1)**

4.3 Calculate: 640 + 290 **(1)**

4.4 Calculate: 1 200 − 675 **(1)**

4.5 Write $\frac{2}{5}$ as a percentage. **(1)**

5 Whole numbers

10 marks

5.1 Write 305 060 718 in expanded notation. **(1)**

5.2 Arrange the following numbers from largest to smallest. **(2)**

415 203 678; 451 203 678; 415 203 687; 415 230 678

5.3 Round the number 6 293 847 as indicated. **(2)**

Round to the nearest	Answer
5	
1 000	

5.4 Write 0,85 as a common fraction in its simplest form. **(2)**

5.5 Write down all the prime numbers between 70 and 90. **(1)**

5.6 The temperature is 18 °C. It drops by 5 °C. What is the new temperature? **(2)**

6 Rounding and expanded notation

4 marks

6.1 Round 58 362 off to the nearest 5. **(1)**

6.2 Round 58 362 off to the nearest 100. **(1)**

6.3 Write 80 507 in expanded notation. **(2)**

7 Multiples and factors

6 marks

7.1 Write down all the factors of 36. **(2)**

7.2 Write down the first five multiples of 8. **(2)**

7.3 What is the lowest common multiple (LCM) of 6 and 9? **(1)**

7.4 What is the highest common factor (HCF) of 24 and 36? **(1)**

8 Operations

14 marks

8.1 Calculate the following using the vertical column method. **(2)**

	5	3	8	2	7	4
+	1	9	6	8	5	9

8.2 Calculate the following using the vertical column method. **(2)**

	8	0	3	1	0	5
−	4	6	7	3	8	2

8.3 Calculate 2 345 × 136 using long multiplication. Show all your working. **(3)**

			2	3	4	5
		×		1	3	6
+						

8.4 Calculate 9 728 ÷ 152 using long division. Show all your working. **(3)**

152 | 9 7 2 8

8.5 Calculate: 4,75 + 12,8 + 0,65 **(2)**

8.6 A shop gives 15% discount on a bicycle costing R2 400. How much do you pay? Show all your working. **(2)**

9 Multiply and divide

6 marks

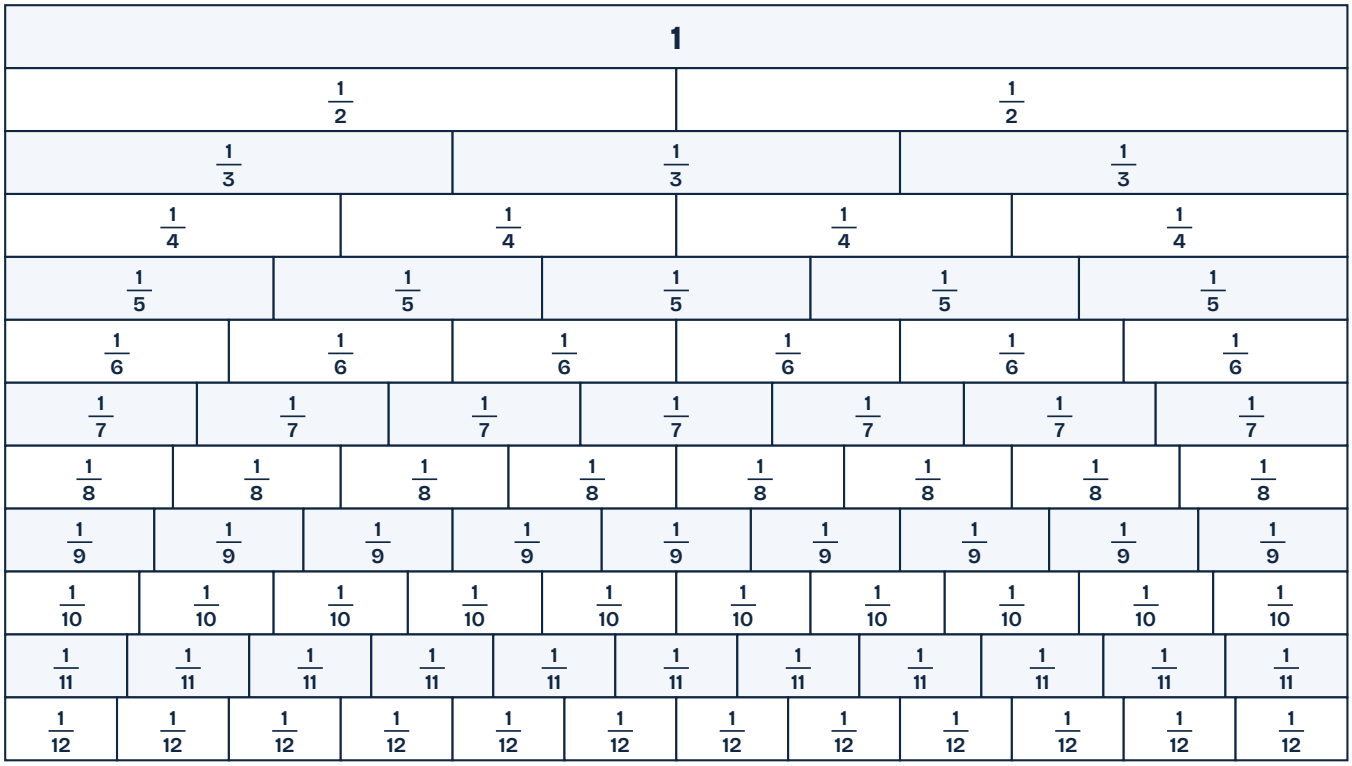
9.1 Calculate 418 × 36 using long multiplication. Show all your working. **(3)**

9.2 Calculate 6 384 ÷ 28 using long division. **(3)**

10 Fractions, decimals and percentages

10 marks

10.1 Use the fraction wall below and arrange from smallest to largest: $\frac{5}{6}$; $\frac{2}{3}$; $\frac{5}{12}$ **(1)**



10.2 Calculate: $\frac{3}{4} + \frac{5}{8}$ **(2)**

10.3 Calculate: $\frac{7}{10} - \frac{1}{5}$ **(2)**

10.4 Complete the table. **(2)**

Fraction	Decimal	Percentage
$\frac{1}{5}$		
	0,75	

10.5 A class has 40 learners. 30% of them walk to school. How many learners walk to school, and how many learners do NOT walk to school? **(3)**

11 Fractions, decimals and percentages

10 marks

11.1 Calculate: $2\frac{1}{3} + 1\frac{5}{6}$. Show your working. **(2)**

11.2 Calculate: $\frac{5}{6} - \frac{1}{3}$ **(2)**

11.3 Write 0,35 as a common fraction in simplest form. **(2)**

11.4 Calculate: 5,7 + 23,48 **(2)**

11.5 Calculate 15% of R640. **(2)**

12 Ratio and rate

6 marks

12.1 Write the ratio 18 : 24 in simplest form. **(1)**

12.2 Divide R720 in the ratio 4 : 5. **(3)**

12.3 A recipe uses 2 cups of sugar for 15 muffins. How many cups of sugar are needed for 45 muffins? **(2)**

13 Rate: rand per kilogram

3 marks

13.1 Tomatoes cost R18 per kilogram. Mrs Naidoo buys $3\frac{1}{2}$ kg of tomatoes and pays with a R100 note. a. How much do the tomatoes cost? b. How much change does she get? Show your working. **(3)**

14 Financial mathematics

9 marks

14.1 A shopkeeper buys 4 chairs for R350 each. He sells all 4 chairs together for R1 800. Calculate his PROFIT. **(3)**

14.2 A jacket costs R400. The shop gives 15% discount. How much do you pay? **(3)**

14.3 Lerato earns R3 500 a month. She budgets R1 450 for food and R980 for transport, and saves the rest. How much does she save? **(3)**

15 Order of operations and estimating

9 marks

15.1 Calculate. Watch the order of operations. **(4)**

a. $12 + 3 \times 4 =$ _____ b. $(12 + 3) \times 4 =$ _____

c. $36 \div (2 + 4) =$ _____ d. $5 \times (8 - 3) + 7 =$ _____

15.2 Explain why a. and b. above give different answers. **(2)**

15.3 First ESTIMATE 4 872 + 3 219 by rounding to the nearest 100 and then calculate the exact answer. **(3)**

16 Large numbers

7 marks

16.1 Count backwards in 1 250s. Write the next THREE numbers. **(2)**

506 000 — _____ — _____ — _____

16.2 Write 7 309 468 in expanded notation. **(2)**

16.3 Round off 7 309 468. **(3)**

a. nearest 10: _____ b. nearest 100: _____ c. nearest 1 000: _____

17 Operations with large numbers

12 marks

17.1 Calculate 6 284 519 + 2 748 683. **(3)**

17.2 Calculate 6 284 519 − 2 748 683, and check by adding. **(3)**

17.3 Calculate 4 126 × 237. **(3)**

17.4 Calculate 7 905 ÷ 255. **(3)**

18 Multiples, factors and prime numbers

9 marks

18.1 Write all the factors of 90. **(2)**

18.2 What is the highest common factor (HCF) of 90 and 120? **(2)**

18.3 What is the lowest common multiple (LCM) of 90 and 120? **(2)**

18.4 Write 126 as a product of its PRIME FACTORS. **(3)**

19 Fractions and decimals

8 marks

19.1 Write as a decimal fraction: a. $\frac{3}{4}$ b. $\frac{3}{5}$ **(2)**

19.2 Calculate: 3,45 + 2,8 **(2)**

19.3 Calculate: $\frac{2}{5}$ of 45 **(2)**

19.4 Arrange from SMALLEST to LARGEST: 0,7 · 0,07 · 0,77 · 0,17 **(2)**

20 Percentages and financial problems

8 marks

20.1 Calculate 35% of R620. **(2)**

20.2 A shop buys a lamp for R680 and sells it for R950. Calculate the profit. The salesperson then gets 10% of the selling price. How much money does the salesperson get? **(3)**

20.3 A coat costs R600. The shop gives 20% discount. What do you pay? **(3)**

21 Ratio, rate and problem solving

12 marks

21.1 A train travels 420 km in 5 hours. How far does it travel in one hour? **(2)**

21.2 Cement and sand are mixed in the ratio 2 : 7. How many bags of each are there in 63 bags? **(3)**

21.3 126 pencils are shared equally among 9 classes. How many does each class get? **(2)**

21.4 Thandi saves R175 a month for 8 months. She wants to buy a bicycle costing R1 600. **(3)**

a. How much has she saved? _____

b. How much more does she need? _____

21.5 Write a number sentence for the problem and solve it: A farmer has 1 250 sheep. He sells 385. How many are left? **(2)**

22 More number work

12 marks

22.1 Round off 4 736 283: **(3)**

a. nearest 5: _____ b. nearest 10: _____ c. nearest 1 000: _____

22.2 Calculate with brackets: a. 6 × (25 + 15) b. (144 ÷ 12) + 38 c. 100 − (7 × 8) **(3)**

22.3 A school's 1 248 learners are divided into groups of 24 for an outing. How many groups are there, and how many buses of 3 groups each are needed? **(3)**

22.4 Write as a percentage: a. $\frac{1}{2}$ b. 0,25 c. $\frac{3}{5}$ **(3)**

Total **177 marks**



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