Mathematics · Grade 6

Term 1–4 | 11 questions | CAPS-aligned

TOTAL 67 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	True or false	6	
2	Short questions	5	
3	Rounding and expanded notation	4	
4	Multiples and factors	6	
5	Multiply and divide	6	
6	Fractions, decimals and percentages	10	
7	Numeric patterns	4	
8	Ratio and rate	6	
9	Problem solving	3	
10	Probability	8	
11	Financial mathematics	9	
	Total	**67**	
	Percentage		%

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1 True or false

6 marks

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

Statement	True / False
1. 7 × 8 = 54	
2. The HCF of 8 and 12 is 4	
3. 0,5 = $\frac{1}{2}$	
4. All prime numbers are odd	
5. 3 465 rounded to the nearest 100 is 3 500	
6. 25% of 80 is 25	

2 Short questions

5 marks

2.1 Write the largest number that can be made with the digits 4, 7, 1 and 9. **(1)**

2.2 What is the place value of the 6 in 46 208? **(1)**

2.3 Calculate: 450 + 380 **(1)**

2.4 Which of the numbers 3, 4 and 5 make this number sentence true? $4 \times \square < 17$ **(1)**

2.5 Write $\frac{3}{4}$ as a percentage. **(1)**

3 Rounding and expanded notation

4 marks

3.1 Round 27 486 off to the nearest 1 000. **(1)**

3.2 Round 27 486 off to the nearest 5. **(1)**

3.3 Write 60 403 in expanded notation. **(2)**

4 Multiples and factors

6 marks

4.1 Write down all the factors of 24. **(2)**

4.2 Write down the first five multiples of 6. **(2)**

4.3 What is the lowest common multiple (LCM) of 4 and 6? **(1)**

4.4 What is the highest common factor (HCF) of 18 and 27? **(1)**

5 Multiply and divide

6 marks

5.1 Calculate 346 × 27 using long multiplication. Show all your working. **(3)**

5.2 Calculate 5 184 ÷ 24 using long division. **(3)**

6 Fractions, decimals and percentages

10 marks

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

6.2 Calculate: $\frac{7}{8} - \frac{1}{4}$ **(2)**

6.3 Write 0,45 as a common fraction in simplest form. **(2)**

6.4 Calculate: 3,6 + 12,85 **(2)**

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

7 Numeric patterns

4 marks

7.1 Extend the pattern: 5 ; 11 ; 23 ; 47 ; _____ ; _____ **(2)**

7.2 What is the rule of the pattern 4 ; 9 ; 14 ; 19 ? **(2)**

8 Ratio and rate

6 marks

8.1 Write the ratio 15 : 25 in simplest form. **(1)**

8.2 Divide R840 in the ratio 2 : 5. **(3)**

8.3 A baker uses 3 cups of flour for 12 biscuits. How many cups of flour does he need for 20 biscuits? **(2)**

9 Problem solving

3 marks

9.1 Karli buys a book for R85,50 and a pen for R24,75. She pays with a R200 note. How much change does she get? **(3)**

10 Probability

8 marks

10.1 A bag holds 4 red, 3 blue and 5 green marbles. Calculate the chance of drawing each colour at random. **(3)**

a. Red: _____ b. Blue: _____ c. Green: _____

10.2 Which colour has the BEST chance of being drawn? Give a reason. **(2)**

10.3 What is the chance of drawing a YELLOW marble? Explain. **(2)**

10.4 You throw an ordinary die. What is the chance of throwing a 6? **(1)**

11 Financial mathematics

9 marks

11.1 A shopkeeper buys 3 bicycles for R1 200 each. He sells all 3 bicycles together for R4 200. Calculate his PROFIT. **(3)**

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

11.3 Sipho earns R2 000 a month. He budgets R850 for food and R640 for transport, and saves the rest. How much does he save? **(3)**

Total **67 marks**



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