EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
35	55 minutes	3

Name: _____ Class: _____

Date: _____

MARK _____ / 35

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** the questions in this question paper.
2. Answer QUESTION 1 by **circling** the letter (A–D) in the answer grid at the end of that section.
3. Show **ALL** calculations clearly.
4. Show all units where applicable.
5. Number the answers correctly according to the numbering system used in this question paper.
6. A non-programmable calculator may be used, unless stated otherwise.
7. Write neatly and legibly.

QUESTION 1 [10 MARKS]

Four options are given as possible answers to the following questions. Choose the correct answer and circle the letter (A–D) in the grid at the end of this section. If you want to change your choice, put a cross through the wrong letter and circle your new choice.

1.1 Which one of the following number sentences shows the COMMUTATIVE property? (1)

A) $7 \times 5 = 5 \times 7$
B) $(7 \times 5) \times 2 = 7 \times (5 \times 2)$
C) $7 \times 1 = 7$
D) $7 \times (5 + 2) = 7 \times 5 + 7 \times 2$

1.2 A shop buys 4 boxes of 15 pens and 3 boxes of 12 pens. How many pens does it have altogether? (1)

A) 60
B) 75
C) 96
D) 189

1.3 Which one of the following is UNDEFINED? (1)

A) $\frac{8}{1}$
B) 8×0
C) $\frac{8}{0}$
D) $\frac{0}{8}$

1.4 A customer pays for goods costing R372 with a R500 note. What change is due? (1)

A) R872
B) R128
C) R138
D) R228

1.5 Estimate 297×4 by rounding to the nearest hundred first. (1)

A) 1 000
B) 800
C) 1 188
D) 1 200

1.6 Which one of the following is a WHOLE number but NOT a natural number? (1)

A) 1 **B)** 0

C) $\frac{1}{2}$ **D)** -3

1.7 Calculate: $40 - 6 \times 5 + 2$ (1)

A) 172 **B)** 8

C) -8 **D)** 12

1.8 A bus seats 52 people. How many buses are needed for 375 passengers? (1)

A) 6 **B)** 7

C) $7{,}2$ **D)** 8

1.9 Which one of the following pairs of numbers has a sum of 100 and a difference of 20? (1)

A) 80 and 20 **B)** 60 and 40

C) 50 and 50 **D)** 70 and 30

1.10 The number $4\,807$ is written in expanded notation as ... (1)

A) $4\,000 + 800 + 7$ **B)** $4\,000 + 80 + 7$

C) $4 + 8 + 0 + 7$ **D)** $400 + 80 + 7$

ANSWER GRID — CIRCLE YOUR ANSWERS FOR QUESTION 1

1.1	A	B	C	D
1.2	A	B	C	D
1.3	A	B	C	D
1.4	A	B	C	D
1.5	A	B	C	D
1.6	A	B	C	D
1.7	A	B	C	D
1.8	A	B	C	D
1.9	A	B	C	D
1.10	A	B	C	D

QUESTION 2 [13 MARKS]

Answer the following questions on the properties of whole numbers. Show ALL your calculations.

2.1 Name the property shown by $7 \times 5 = 5 \times 7$, and show by ONE example that the same property does NOT hold for subtraction. (3)

2.2 Use the distributive property to calculate 7×98 WITHOUT a calculator. **(3)**

2.3 Calculate, showing every step: $25 \times 104 - 48 \div 16$ **(4)**

2.4 Write down the value of $0 \div 8$, and explain why $8 \div 0$ has no answer. **(3)**

QUESTION 3 [12 MARKS]

A shop buys 3 boxes containing 15 pens each and 4 boxes containing 12 pens each. Each pen is sold for R4.

3.1 Calculate the total number of pens the shop buys. **(3)**

3.2 Calculate the total income if every pen is sold, and hence the profit if the shop paid R$2{,}50$ for each pen. **(4)**

3.3 A customer pays for all 93 pens with R500. Calculate the change. **(2)**

3.4 Ann says division is commutative because $12 \div 6 = 2$. Is Ann correct? Give a reason and support it with an example. **(3)**

TOTAL: 35 marks

This question paper consists of 3 questions.

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