EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
32	50 minutes	3

Name: ..... Class: .....

Date: .....

MARK ____ / 32

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 The value of $(1{,}2)^2$ is ... (1)

A) $1{,}4$ **B)** $1{,}44$
C) $2{,}4$ **D)** $14{,}4$

1.2 $\sqrt{0{,}64} = \ldots$ (1)

A) $0{,}8$ **B)** $0{,}08$
C) 8 **D)** $0{,}32$

1.3 Thabo says $(0{,}5)^2 = 2{,}5$. His mistake is that he ... (1)

A) MULTIPLIED by 5 instead of by $0{,}5$ **B)** forgot the comma
C) should have added $0{,}5$ twice **D)** should have divided

1.4 $\sqrt{0{,}04} = \ldots$ (1)

A) 2 **B)** $0{,}02$
C) $0{,}2$ **D)** $0{,}16$

1.5 $\sqrt[3]{0{,}008} = \ldots$ (1)

A) $0{,}02$ **B)** $0{,}2$
C) 2 **D)** $0{,}004$

1.6 A square tile has an area of $1{,}44$ m^2. Its PERIMETER is ... (1)

A) $2{,}4$ m **B)** $1{,}2$ m
C) $5{,}76$ m **D)** $4{,}8$ m

1.7 Which one of the following is TRUE? (1)

A) $(0{,}3)^2$ is bigger than $0{,}3$ **B)** $(0{,}3)^2$ is smaller than $0{,}3$

C) $(0{,}3)^2 = 0{,}3$ **D)** $(0{,}3)^2 = 0{,}6$

1.8 $\sqrt{0{,}25} + (0{,}1)^2 = \ldots$ (1)

A) $0{,}15$ **B)** $0{,}6$

C) $0{,}51$ **D)** $0{,}26$

1.9 A cube has a volume of $0{,}027$ m^3. The length of its side is ... (1)

A) $0{,}9$ m **B)** $0{,}03$ m

C) $0{,}3$ m **D)** $0{,}009$ m

1.10 Which one of the following is NOT a perfect square? (1)

A) $0{,}01$ **B)** $0{,}04$

C) $0{,}09$ **D)** $0{,}05$

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 [10 MARKS]

Calculate the following WITHOUT using a calculator.

2.1 $0{,}5^2 + 0{,}3^3$ (4)

2.2 $\sqrt{1{,}44} + \sqrt[3]{0{,}008}$ **(4)**

2.3 $\sqrt{0{,}64}$ **(2)**

QUESTION 3 [12 MARKS]

Answer the questions below.

3.1 A square tile has sides of $1{,}2$ m. Calculate its area. **(3)**

3.2 A different square tile has an area of $0{,}64$ m^2. Calculate the length of its side and its perimeter. **(4)**

3.3 Thabo says $0{,}5^2 = 2{,}5$. Explain his mistake. **(2)**

3.4 Explain why $\sqrt{0{,}04} = 0{,}2$ and not $0{,}02$. **(3)**

TOTAL: 32 marks

This question paper consists of 3 questions.

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