MARKING GUIDELINE

MARKS	DURATION	QUESTIONS
33	50 minutes	3

Name: _____ Class: _____

Date: _____

MARK ____ / 33

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 $3{,}4 + 12{,}75 = \ldots$ (1)

A) 16,15 ✓ **B)** 16,79

C) 15,15 **D)** 4,675

Answer: A — Line up the COMMAS: $3{,}40 + 12{,}75$.

- **B** — added the digits without aligning place value
- **C** — lost a unit in the carrying
- **D** — lined up the FIRST digits instead of the commas $(3{,}4 + 1{,}275)$

1.2 $20 - 6{,}45 = \ldots$ (1)

A) 13,55 ✓ **B)** 14,55

C) 26,45 **D)** 14,45

Answer: A — $20{,}00 - 6{,}45 = 13{,}55$.

- **B** — did not borrow from the units
- **C** — ADDED instead of subtracting
- **D** — subtracted the hundredths the wrong way

1.3 When adding decimals you must line up the ... (1)

A) longest numbers **B)** last digits

C) first digits **D) commas ✓**

Answer: D — Lining up the commas lines up the place values.

- **A** — length has nothing to do with it
- **B** — lining up the last digits turns $3{,}4 + 12{,}75$ into $0{,}34 + 12{,}75 = 13{,}09$
- **C** — the whole-number parts can be different lengths

1.4 A pipe 2,5 m long has 0,85 m cut off. The piece left is ... (1)

A) 2,35 m
B) 1,75 m
C) 3,35 m
D) 1,65 m ✓

> **Answer: D** — $2{,}50 - 0{,}85 = 1{,}65$ m.
> - **A** — took the smaller digit from the bigger one in each column instead of borrowing
> - **B** — borrowed incorrectly
> - **C** — ADDED the two lengths

1.5 $0{,}7 + 0{,}3 = \ldots$ (1)

A) 0,10
B) 0,21
C) 1 ✓
D) 0,1

> **Answer: C** — 7 tenths plus 3 tenths is 10 tenths, which is one whole.
> - **A** — wrote ten tenths as 0,10 instead of carrying
> - **B** — multiplied instead of adding
> - **D** — same slip, written as 0,1

1.6 Thandi buys items for R12,60, R8,45 and R23,95. Her total is ... (1)

A) R45,10
B) R45,00 ✓
C) R44,00
D) R43,90

> **Answer: B** — $12{,}60 + 8{,}45 + 23{,}95 = 45{,}00$.
> - **A** — carried twice
> - **C** — lost a rand in the carrying
> - **D** — did not carry from the cents

1.7 Which one of the following is CLOSEST to 1? (1)

A) 0,98 ✓
B) 0,89
C) 1,2
D) 0,9

> **Answer: A** — The differences are 0,11 ; 0,02 ; 0,2 and 0,1.
> - **B** — 0,11 away
> - **C** — 0,2 away
> - **D** — 0,1 away

1.8 She pays with R50 for goods costing R38,75. Her change is ... (1)

A) R12,75
B) R11,35
C) R12,25
D) R11,25 ✓

> **Answer: D** — $50{,}00 - 38{,}75 = 11{,}25$.
> - **A** — subtracted the cents the wrong way round
> - **B** — borrowed incorrectly in the cents
> - **C** — did not borrow from the tens

1.9 $6{,}08 + 0{,}9 = \ldots$ (1)

A) $7{,}08$ **B)** $6{,}17$

C) $6{,}98$ ✓ **D)** $6{,}89$

> **Answer: C** — $6{,}08 + 0{,}90 = 6{,}98$ — the 9 is TENTHS, not hundredths.
> - **A** — added the 9 as units
> - **B** — added the 9 as hundredths
> - **D** — reversed the digits of the answer

1.10 Which calculation gives an answer of exactly 5? (1)

A) $4{,}5 + 0{,}4$ **B) $3{,}75 + 1{,}25$ ✓**

C) $2{,}8 + 2{,}3$ **D)** $1{,}95 + 3{,}15$

> **Answer: B** — $3{,}75 + 1{,}25 = 5{,}00$.
> - **A** — gives $4{,}9$
> - **C** — gives $5{,}1$
> - **D** — gives $5{,}1$

ANSWER GRID — MARKING GUIDELINE

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 [11 MARKS]

Calculate the following WITHOUT using a calculator. Show ALL your working.

2.1 $20 - 6{,}45 - 2{,}8$ (4)

> Write 20 as $20{,}00$ and work from left to right *(1)*
> $20{,}00 - 6{,}45 = 13{,}55$ *(2)*
> $13{,}55 - 2{,}80 = \mathbf{10{,}75}$ *(1)*

2.2 $(4{,}6 + 2{,}35) \times 0{,}2$ (4)

> Brackets FIRST: $4{,}60 + 2{,}35 = 6{,}95$ *(2)*
> $6{,}95 \times 0{,}2$ *(1)* $= \mathbf{1{,}39}$ *(1)*

2.3 Estimate $19{,}7 + 4{,}2$ by rounding each number to the nearest whole number, then give the exact answer. (3)

> $20 + 4 = 24$ *(1)*
> Exactly: **23,9** *(1)*
> The estimate is close, so the answer is reasonable *(1)*

QUESTION 3 [12 MARKS]

Ann buys three items at a shop: R32,40, R15,85 and R9,99. She pays with a R100 note.

3.1 Calculate the total cost of the three items. (3)

> $32{,}40 + 15{,}85 + 9{,}99$ *(2)* = **R58,24** *(1)*

3.2 Calculate the change Ann receives. (3)

> $100{,}00 - 58{,}24$ *(2)* = **R41,76** *(1)*

3.3 A plank is $2{,}4$ m long. A piece of $0{,}85$ m and a piece of $0{,}6$ m are cut off. Calculate the length of the plank that is left. (4)

> $2{,}40 - 0{,}85 = 1{,}55$ m *(2)*
> $1{,}55 - 0{,}60$ *(1)* = **0,95 m** *(1)*

3.4 Explain why the decimal commas must be lined up before adding. (2)

> Lining up the commas lines up the place values *(1)*; tenths must be added to tenths and hundredths to hundredths *(1)*

TOTAL: 33 marks

This question paper consists of 3 questions.

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