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 Calculate: $-8 + 3$ (1)

A) 5 **B)** 11

C) -11 **D)** -5

1.2 Calculate: $5 - (-6)$ (1)

A) 11 **B)** -11

C) -1 **D)** 1

1.3 The temperature rises from -6 °C to 5 °C. The change in temperature is ... (1)

A) -11 °C **B)** 1 °C

C) 11 °C **D)** -1 °C

1.4 The list $-4; 6; -9; 0; 2$ arranged in ASCENDING order is ... (1)

A) $6; 2; 0; -4; -9$ **B)** $-4; -9; 0; 2; 6$

C) $0; 2; -4; 6; -9$ **D)** $-9; -4; 0; 2; 6$

1.5 Which one of the following is the additive inverse of -7? (1)

A) 0 **B)** -7

C) 7 **D)** $\frac{1}{7}$

1.6 Calculate: $(-3) - 5 + (-2)$ (1)

A) -10 **B)** 0

C) -6 **D)** 4

1.7 A diver is 18 m below sea level and rises 7 m. Her new position is ... (1)

A) 11 m **B)** -11 m

C) 25 m **D)** -25 m

1.8 Which one of the following statements is TRUE? (1)

A) $-9 = 9$ **B)** $-9 > -4$

C) $-9 < -4$ **D)** $-4 < -9$

1.9 The temperature at $12{:}00$ is 5 °C. By $18{:}00$ it has FALLEN 9 °C. The temperature at $18{:}00$ is ... (1)

A) -14 °C **B)** -4 °C

C) 4 °C **D)** 14 °C

1.10 Calculate: $-12 + 12$ (1)

A) 0 **B)** -1

C) -24 **D)** 24

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. Show ALL your steps.

2.1 $(-8) + (-5) - (-12)$ (3)

2.2 $15 + (-20) - (-7) + (-3)$ **(4)**

2.3 Arrange in ascending order: -4; 6; -9; 0; 2, and hence write down the difference between the largest and the smallest. **(3)**

QUESTION 3 [12 MARKS]

The table below shows the temperature in a town at four different times on one winter's day.

Time	06:00	12:00	18:00	22:00
Temperature (°C)	-6	5	-4	2

3.1 Calculate the change in temperature from 06:00 to 12:00, and then the change from 06:00 to 22:00. **(3)**

3.2 Calculate the change in temperature from 12:00 to 18:00. **(2)**

3.3 Calculate the difference between the highest and the lowest temperature of the day. **(3)**

3.4 A fifth reading of -2 °C is taken at $02{:}00$. Calculate the MEAN of the five temperatures. **(4)**

TOTAL: 32 marks

This question paper consists of 3 questions.

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