



2025 TESTIFI EXAMINATION

Multiples of Negative Integers

Solutions and Marking Guidelines

Section I

2 marks

Questions 1–2

Question 1 (1 mark)

1

C

The correct answer is $(-4) + (-4) + (-4) + (-4) + (-4) + (-4)$. Since the diver descends 4 metres each minute (a loss of elevation), each term is -4 . Over 6 minutes, this gives us six terms of -4 , which equals $6 \times (-4) = -24$ metres total descent.

Question 2 (1 mark)

1

B

The correct answer is "She used only 3 terms instead of 5 terms". When representing $5 \times (-3)$ as repeated addition, we need 5 terms of -3 , not 3 terms. The correct representation should be $(-3) + (-3) + (-3) + (-3) + (-3)$, which equals -15 .

Section II

10 marks

Questions 3–8

Question 3 (1 marks) **1**

$$-7 \times 3 = (-7) + (-7) + (-7)$$

Question 4 (1 marks) **1**

$$-4 \times 3 = (-4) + (-4) + (-4)$$

Question 5 (1 marks) **1**

$$-2 \times 5 = (-2) + (-2) + (-2) + (-2) + (-2)$$

Question 6 (2 marks) **2**

$$-5 \times 4 = (-5) + (-5) + (-5) + (-5) = -20$$

Question 7 (2 marks) **2**

$$-3 \times 5 = (-3) + (-3) + (-3) + (-3) + (-3) = -15$$

Question 8 (3 marks) **3**

$$(-8) + (-8) + (-8) + (-8) + (-8) = -8 \times 5 = -40$$