Integers topic test

Name: _____ Date: _____

15 questions | 30 marks | 45 minutes

A progressive by-hand review of signed quantities, order and integer addition/subtraction.

No calculator needed.

1. Write a signed height for 12 m below sea level. [1 mark]

2. Write the opposite of +8. [1 mark]

3. Put < or > between −4 and −9. [1 mark]

4. Write -6, 3, -1 and 0 in ascending order. [2 marks]

5. Find the distance between -7 and 5. [2 marks]

6. Calculate $-5 + 12$. [1 mark]

7. Calculate $-6 + (-8)$. [1 mark]

8. Calculate $11 - 16$. [1 mark]

9. Calculate $4 - (-7)$. [2 marks]

10. Calculate $-9 - (-2)$. [2 marks]

11. Evaluate $3 - 8 + 4$. [2 marks]

12. Find the integer that completes $-6 + \square = 2$. [2 marks]

13. A lift starts at floor -3. It rises 8 floors, then falls 2 floors. Find its final floor. [3 marks]

14. The morning temperature is −5°C and the afternoon temperature is 8°C. It then falls by 10°C at night. [4 marks]

(a) Find the morning-to-afternoon rise. [2 marks]

(b) Find the night temperature. [2 marks]

15. An account starts with 15 dollars. A payment of 24 dollars is made, then 7 dollars is deposited. Its allowed minimum balance is −10 dollars. [5 marks]

(a) Find the balance after the payment and deposit. [3 marks]

(b) Find the greatest further whole-dollar payment allowed. [2 marks]