NEGATIVE NUMBERS

Task 1

1) The temperature in Moscow is -12°C. In Madrid, it's 8°C. What is the difference in temperature?

2) A submarine is 200 m below sea level. Write this as a negative number.

3) Your bank balance is -£25. You earn £40. What is your new balance?

4) A lift goes from the 3rd floor to the basement level -2. How many floors did it descend?

5) If it's 4°C now and the forecast says it will drop by 9°C overnight, what will the temperature be?

6) You owe your friend £10, and you borrow £15 more. What is your total debt?

7) A mountaineer descends from 200 m above sea level to 50 m below sea level. What is the total change in height?

8) The stock market drops 7 points in one hour and 5 more the next hour. Express this change as a negative number.

9) If a city's temperature is -3°C at 6 am and -8°C at 8 am, how much did the temperature drop?

10) You have £5 in your account, but your card is declined after a transaction because your bank will not allow a balance of -£8. How much was the transaction?

Task 2 – Work out the following calculations.

11) -3 + 5

12) 6 - 9

13) -7 + (-2)

14) 10 - - 4

15) 3 - -6

16) -4 + 9

17) -8 - 5

18) 7 + (-10)

19) -12 + 12

20) -6 - -3

21) -11 + (-9)

22) 0 - -7

23) 10 - 13

24) -5 + (-4)

25) -2 - 8

Task 3 – Work out the following calculations.

26) -3 × 4

27) -6 ÷ 2

28) 5 × (-2)

29) -8 × (-5)

30) 9 ÷ (-3)

31) -7 × 6

32) -12 ÷ (-4)

33) 0 × (-15)

34) (-3) × (-3)

35) -20 ÷ 5

36) (-6) × 2

37) 18 ÷ (-6)

38) -10 × (-10)

39) (-9) ÷ 3

40) 4 × (-7)

Challenge

41) A football team loses 3 matches in a row (each loss is worth -2 points), then wins 2 matches (each win is worth +3 points). Calculate their total points.

42) The temperature was at x °C. It dropped by 4°C, then rose by 9°C, to a final temperature of 2°C. What was the starting temperature?

43) A bank balance is £x. You receive a payment of £35, then spend £62. Your account becomes overdrawn with a final balance of -£10. Work out the value of x.

44) Calculate:
$$(-4)^3 + 18 - 2 - -3$$