



# NEGATIVE NUMBERS

## Task 1

- 1) The temperature in Moscow is  $-12^{\circ}\text{C}$ . In Madrid, it's  $8^{\circ}\text{C}$ . 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  $-\text{£}25$ . You earn  $\text{£}40$ . 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  $4^{\circ}\text{C}$  now and the forecast says it will drop by  $9^{\circ}\text{C}$  overnight, what will the temperature be?
- 6) You owe your friend  $\text{£}10$ , and you borrow  $\text{£}15$  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  $-3^{\circ}\text{C}$  at 6 am and  $-8^{\circ}\text{C}$  at 8 am, how much did the temperature drop?
- 10) You have  $\text{£}5$  in your account, but your card is declined after a transaction because your bank will not allow a balance of  $-\text{£}8$ . 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)  $-3 \times 4$
- 27)  $-6 \div 2$
- 28)  $5 \times (-2)$
- 29)  $-8 \times (-5)$
- 30)  $9 \div (-3)$
- 31)  $-7 \times 6$

$$32) -12 \div (-4)$$

$$33) 0 \times (-15)$$

$$34) (-3) \times (-3)$$

$$35) -20 \div 5$$

$$36) (-6) \times 2$$

$$37) 18 \div (-6)$$

$$38) -10 \times (-10)$$

$$39) (-9) \div 3$$

$$40) 4 \times (-7)$$

### 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:

$$(-4)^3 + 18 - 2 - -3$$