NEGATIVE NUMBERS

Task 1

- 1) The temperature in Moscow is -12°C. In Madrid, it's 8°C. What is the difference in temperature? 20°C
- 2) A submarine is 200 m below sea level. Write this as a negative number. -200
- 3) Your bank balance is -£25. You earn £40. What is your new balance? £15
- 4) A lift goes from the 3rd floor to the basement level -2. How many floors did it descend? 5 floors
- 5) If it's 4°C now and the forecast says it will drop by 9°C overnight, what will the temperature be? -5°C
- 6) You owe your friend £10, and you borrow £15 more. What is your total debt? £25
- 7) A mountaineer descends from 200 m above sea level to 50 m below sea level. What is the total change in height? 250 m
- 8) The stock market drops 7 points in one hour and 5 more the next hour. Express this change as a negative number. -12
- 9) If a city's temperature is -3°C at 6 am and -8°C at 8 am, how much did the temperature drop? 5°C
- 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? £13

Task 2 – Work out the following calculations.

11)
$$-3 + 5 = 2$$

12)
$$6 - 9 = -3$$

13)
$$-7 + (-2) = -9$$

15)
$$3 - -6 = 9$$

$$16) -4 + 9 = 5$$

17)
$$-8 - 5 = -13$$

18)
$$7 + (-10) = -3$$

19)
$$-12 + 12 = 0$$

$$20) -6 - -3 = -3$$

$$21) -11 + (-9) = -20$$

$$22)0 - -7 = 7$$

$$23)10 - 13 = -3$$

$$24) - 5 + (-4) = -9$$

$$25) -2 - 8 = -10$$

Task 3 – Work out the following calculations.

$$26) -3 \times 4 = -12$$

$$27) -6 \div 2 = -3$$

28)
$$5 \times (-2) = -10$$

29)
$$-8 \times (-5) = 40$$

$$30) 9 \div (-3) = -3$$

31)
$$-7 \times 6 = -42$$

32)
$$-12 \div (-4) = 3$$

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

$$34)(-3) \times (-3) = 9$$

$$35) -20 \div 5 = -4$$

$$36)(-6) \times 2 = -12$$

37)
$$18 \div (-6) = -3$$

$$38) -10 \times (-10) = 100$$

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

$$40)4 \times (-7) = -28$$

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.

$$3 \times (-2) = -6$$

 $2 \times 3 = 6$
 $-6 + 6 = 0$ 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?

Use inverse operations:

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.

Use inverse operations:

$$-10 + 62 = 52$$

 $52 - 35 = 17$

$$= -64 + 18 - 2 + 3$$

$$= -46 - 2 + 3$$

$$= -45$$

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