



- 1 Write these numbers in order of size. Start with the smallest number.

-4 3 -7 0 5

(1 mark)

Negative numbers are smaller than 0, and -7 is further below zero than -4

Order: -7, -4, 0, 3, 5

- 2 Write each list in order of size. Start with the smallest number.

a. 0.47 0.407 0.5 0.074

b. -0.6 -0.06 -1.2 -0.65 -1

(2 marks)

a) Give them all 3 decimal places

0.470, 0.407, 0.500, 0.074

0.074, 0.407, 0.47, 0.5

b) Further from 0 means smaller

- 3 Write these numbers in order of size. Start with the smallest number.

-1.5 0.3 -0.35 -3 1

(1 mark)

The most negative number is the smallest: -3

Order: -3, -1.5, -0.35, 0.3, 1

4

The temperature in Cardiff is 3°C .

The temperature in Oslo is -8°C .

Work out how many degrees colder Oslo is than Cardiff.

(2 marks)

$$\text{Difference} = 3 - (-8) = 3 + 8$$

Oslo is 11 degrees colder than Cardiff

11

5

Write $<$, $>$, $=$ or $\neq$ in each box to make each statement true.

a. $-7 \square -3$

b. $-2.45 \square -2.5$

c. $(-5) \times (-2) \square -10$

d. Write down all the integers n such that $-3 \leq n < 2$

(3 marks)

a) -7 is further left on the number line

b) -2.45 is closer to 0 than -2.50

c) Negative $\times$ negative = positive

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

$$(-5) \times (-2) \neq -10$$

d) $\leq$ includes -3, $<$ leaves out 2

6

Work out

a. -6×4

b. $-45 \div -9$

c. $-3 \times -2 \times -5$

(3 marks)

a) Signs different, answer negative

=

-

b) Signs the same, answer positive

= 5

5

c) Two at a time

= 6

$6 \times -5 =$

-

7

At midnight the temperature in York was -4°C .By 4 am the temperature had fallen by 5°C .By 10 am the temperature had risen by 8°C from its 4 am value.

Work out the temperature at 10 am.

(2 marks)

Temperature at 4 am

=

Temperature at 10 am

=

-

8

Leah's bank account is overdrawn by £35, so her balance is $-\text{£}35$.

She pays in £60. Then she spends £42 using her bank card.

Work out Leah's new balance.

(2 marks)

Pays in £60

= 25

Spends £42

$25 - 42 =$

-

9

- a. Work out $(-4)^2$
 b. Work out $2 - (-7)$
 c. Put a pair of brackets in this statement to make it true.
 $3 - 5 \times 2 = -4$

(3 marks)

$$a) (-4)^2 =$$

b) Subtracting -7 is the same as adding 7

$$2 + 7 = 9$$

$$c) (3 - 5) \times 2 =$$

10

Work out the missing number in each calculation.

- a. $-8 \times \square = 56$
 b. $\square \div (-3) = 6$

(2 marks)

a) Use the inverse, $\div$ by -8

$$56 \div -8 = -$$

Check: $-8 \times -7 = 56$

-

b) Use the inverse, $\times$ by -3

$$6 \times -3 = -$$

Check: $-18 \div -3 = 6$

-

11

Here are the temperatures, in $^{\circ}\text{C}$, at 6 am on five days in January.

-4 -1 2 -3 -4

Work out the mean temperature.

(2 marks)

Add them up

$$= -$$

Divide by how many

$$= -$$

-

12

In a quiz, a correct answer scores +3 points and a wrong answer scores -2 points.

Priya answers 16 questions. She gets 7 correct and the rest wrong.

Work out Priya's total score.

(3 marks)

Number wrong

$$16 - 7 = 9$$

Points

$$7 \times 3 = 21$$

$$9 \times -2 = -18$$

Total

$$21 + (-18) = 3$$

3 points