



- 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 Here are the lowest temperatures, in °C, recorded in five cities one winter night.

-3 -11 -0.5 -8 -1

Write the temperatures in order. Start with the coldest.

(2 marks)

further below zero = colder

- 3 Write <, > or = in each box to make each statement true.

a. $-7 \square -3$

b. $-2.5 \square -2.05$

c. $4 - 9 \square -5$

(3 marks)

a) -7 is further below zero

b) -2.50 is further below zero than -2.05

c)

$4 - 9 = -5$

$4 - 9 = -5$

4

Write true or false for each statement.

a. $-6 \geq -6$

b. $-4 \neq 4$

c. $-3 \leq -8$

(3 marks)

a) $\geq$ means greater than or equal to

true

b) $\neq$ means not equal to

true

c) $\leq$ means less than or equal to

false

5

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

 $-1.5 \quad 0.3 \quad -0.35 \quad -3 \quad 1$

(1 mark)

The most negative number is the smallest: -3 Order: $-3, -1.5, -0.35, 0.3, 1$

6

Work out

a. $5 - (-8)$

b. $-12 + (-7)$

(2 marks)

a) subtracting a negative = adding

$$5 - (-8) = 5 + 8$$

$$= 13$$

13

b) adding a negative = subtracting

=

=

-

7

Work out

a. -6×4

b. $-35 \div -7$

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

(3 marks)

a) different signs = negative

$6 \times 4 = 24$

b) same signs = positive

$35 \div 7 = 5$

c) work in pairs

$6 \times -5 = -30$

8

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

9

Amira has £25 in her bank account.

She spends £40 on a pair of trainers using her bank card.

The next day she pays in £12

What is her bank balance now?

(2 marks)

$25 - 40 = -15$

10 Find the missing number in each calculation.

a. $-4 \times \square = 28$

b. $\square - 6 = -10$

c. $-45 \div \square = 9$

(3 marks)

a) $28 \div -4$

$\square$
-

b) $-10 + 6$

$\square$
-

c) $-45 \div 9 = -5$

check: $-45 \div -5 = 9$

$\square$
-

11

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

12

In a class quiz you score 3 points for a correct answer and -2 points for a wrong answer.

Leo answers 14 questions. He gets 5 correct and the rest wrong.

a. Work out Leo's total score.

b. Mia also answers 14 questions. Her total score is 7. How many did Mia get correct?

(3 marks)

a) $14 - 5 = 9$ wrong

$$5 \times 3 = 15$$

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

$$15 + (-18) = -3$$

-

b) try 7 correct, 7 wrong

$$7 \times 3 = 21$$

$$7 \times -2 = -14$$

$$21 - 14 = 7$$

7 correct