

**Math (CP) Department**

**Name :** **Key Answer**

**Date :** \_\_\_\_\_

**Academic Year : 2025/2026**

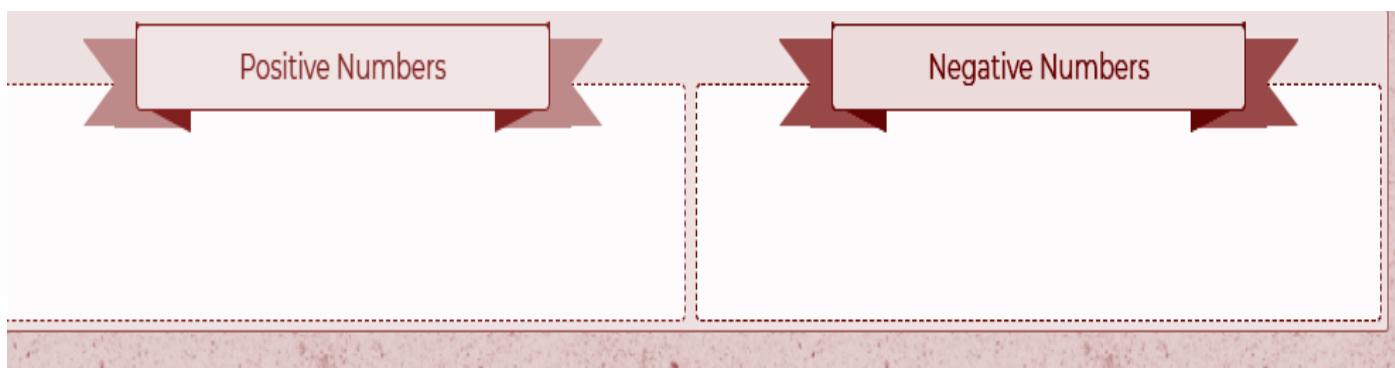
**Grade : 4 (A & B)**

**Booklet 1**

## **Negative and Positive Numbers**

1) Group the words that indicate Positive or Negative integers

a profit of \$3	rise in temperature	decrease in temperature
advance 3 spaces	5 feet above sea level	a loss of 5 points
lose 15 pounds	a debt of \$15	gain of 10 points
increase of 5 pounds	100 feet below sea level	deposit \$42 in the bank



**Answer:**

Positive numbers	Negative numbers
a profit of \$3 advance 3 spaces increase of 5 pounds rise in temperature 5 feet above sea level gain of 10 points deposit \$42 in the bank	lose 15 pounds a debt of \$15 100 feet below sea level a loss of 5 points decrease in temperature

2) Write an integer to represent each situation:

a) 65 degrees above zero: -65

b) A loss of \$15: -15

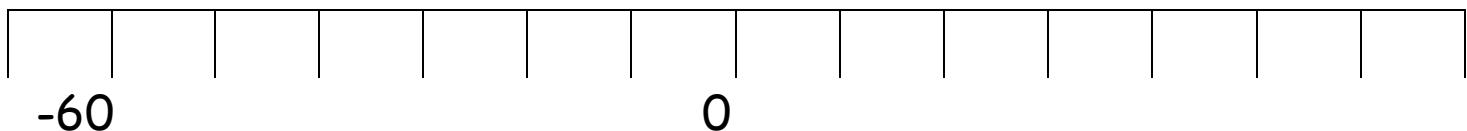
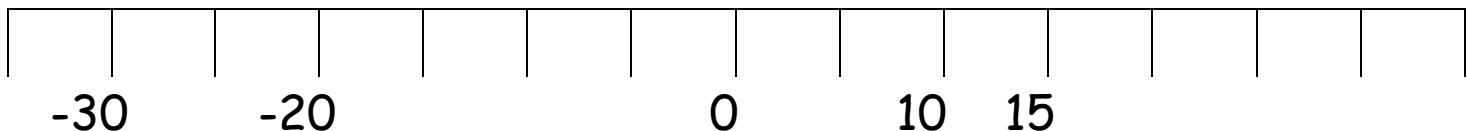
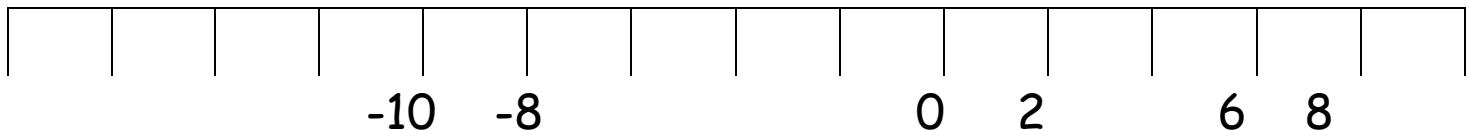
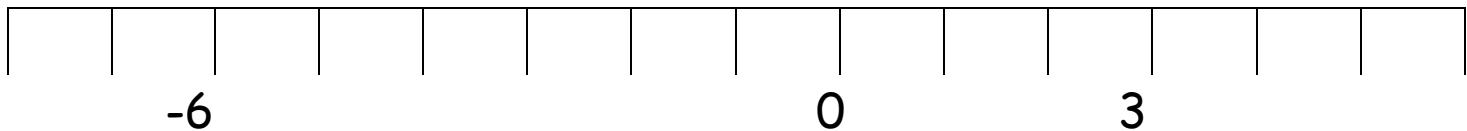
c) 57 meter below sea level: -57

d) 2nd floor under ground: -2

e) A gain of 7 kg: +7

f) The sea level: 0

3) Complete these number lines:



**Answers:**

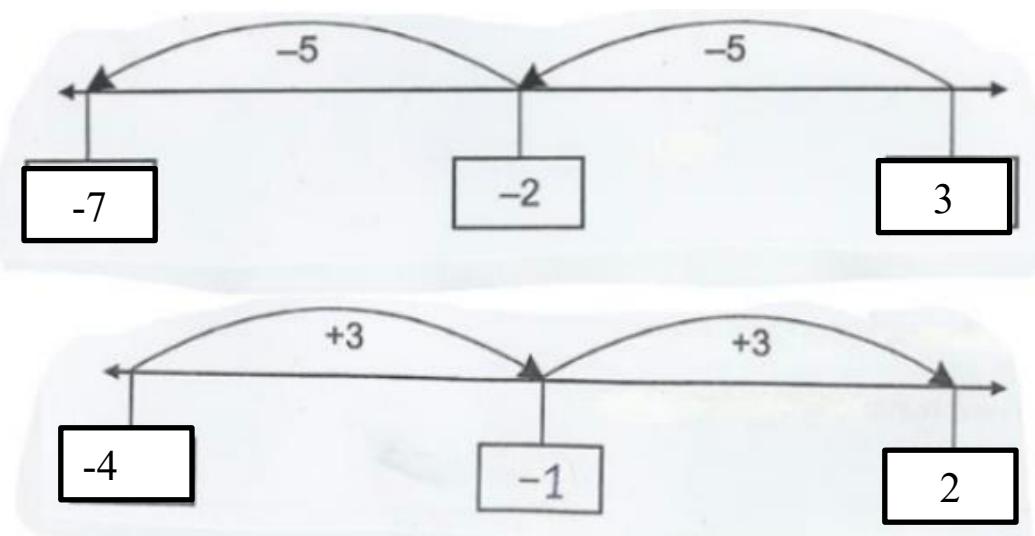
-8,-7,-6,-5,-4,-3,-2,-1,0,1,2,3,4,5,6,7

-18,-16,-14,-12,-10,-8,-6,-4,-2,0,2,4,6,8,10,12

-30,-25,-20,-15,-10,-5,0,5,10,15,20,25,30,35

-70,-60,-50,-40,-30,-20,-10,0,10,20,30,40,50,60,70

4) Write the missing numbers in the sequence.



5) On Friday the temperature on a thermometer was  $3^{\circ}\text{C}$  .

Write what the temperature would be if it was (Draw a thermometer to help you count and find the new temperature)

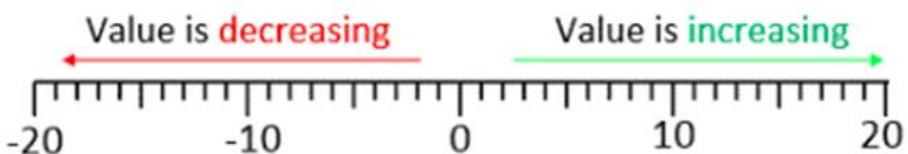
a. 7 degrees warmer  $10^{\circ}\text{C}$       b. 10 degrees warmer  $13^{\circ}\text{C}$  \_

c. 5 degrees colder  $-2^{\circ}\text{C}$  \_      d. 10 degrees colder  $-7^{\circ}\text{C}$  \_

## How to compare negative numbers

When you are comparing with negative numbers, everything swaps around and becomes a little more complicated!

With negative numbers, the more negative the number is, the lower its value.



As you go right along the number line, the values are increasing.

As you go left along the number line, the values are decreasing.

This means that any positive number (or even zero) will always be greater than any negative number.

### Examples

- $0 > -3$  this means 0 is greater than -3
- $-8 < -5$  this means -8 is less than -5
- $-27 > -30$  this means -27 is greater than -30
- $-26 < 2$  this means -26 is less than 2

Use the signs ( $<$ ,  $>$  or  $=$ ) to compare the statements.

(a)  $-2$    $1$

(b)  $0$    $-4$

(c)  $5$    $-5$

(d)  $-3$    $4$

(e)  $-13$    $-31$

(f)  $1$    $-11$

(g)  $12$    $-21$

(h)  $15$    $-5$

(i)  $-7$    $7$

(j)  $-16$    $6$

(k)  $-09$    $0$

(l)  $-100$    $-10$

7) Order each set of integers from largest to smallest:

a)  $1, -2, 0, -3, 5, -5$

$-5, -1, 0, -2, -3, -5$ .

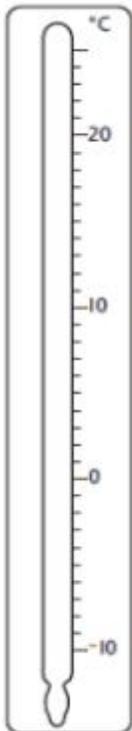
b)  $-4, 3, -2, 1, 8, -3$

$-8, -3, -1, -2, -3, -4$ .

c)  $-10, 10, -7, -4, 8, 0$

$-10, -8, -0, -4, -7, -10$ .

8) Write the new temperatures.



- .  $14^{\circ}\text{C} \rightarrow \text{down } 7^{\circ}\text{C} \rightarrow \text{up } 2^{\circ}\text{C}$
- .  $6^{\circ}\text{C} \rightarrow \text{up } 2^{\circ}\text{C} \rightarrow \text{down } 11^{\circ}\text{C}$
- .  $-2^{\circ}\text{C} \rightarrow \text{down } 7^{\circ}\text{C} \rightarrow \text{up } 4^{\circ}\text{C}$
- .  $0^{\circ}\text{C} \rightarrow \text{up } 3^{\circ}\text{C} \rightarrow \text{down } 5^{\circ}\text{C}$
- .  $9^{\circ}\text{C} \rightarrow \text{down } 7^{\circ}\text{C} \rightarrow \text{up } 8^{\circ}\text{C}$
- .  $-8^{\circ}\text{C} \rightarrow \text{up } 4^{\circ}\text{C} \rightarrow \text{down } 2^{\circ}\text{C}$

9) Work out these temperature problems:

- At 08:00 the temperature was  $3^{\circ}\text{C}$ .  
By 12:00 the temperature has increased by  $5^{\circ}\text{C}$ .  
What was the temperature at 12:00?  $8^{\circ}\text{C}$
- The temperature rises from  $-11^{\circ}\text{C}$  to  $-3^{\circ}\text{C}$   
How many degrees did it rise?  $8$

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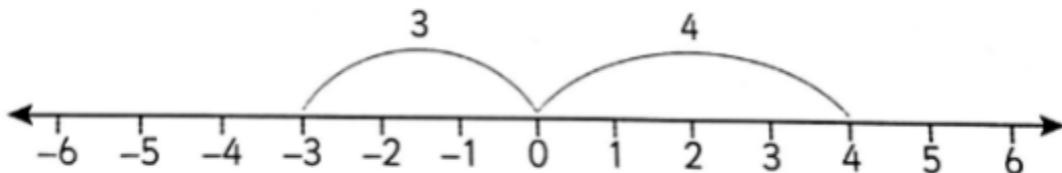
10) The temperature in Canada is  $-8^{\circ}\text{C}$ .

The temperature in Japan is  $6^{\circ}\text{C}$ .

Find the difference between the two temperatures.

..... 14 .....  $^{\circ}\text{C}$

11) To find the difference between positive and negative numbers, use a number line, for example the difference between  $-3$  and  $4$  is  $7$



To find the difference between two negative numbers, use a number line, for example the difference between  $-1$  and  $-5$  is  $4$



12) Use the number lines above to find the difference between the following.

a)  $1$  and  $-6$  = 7

b)  $-2$  and  $-6$  = 4

c)  $3$  and  $5$  = 2

d)  $5$  and  $-3$  = 8

e)  $-6$  and  $-1$  = 5

f)  $-4$  and  $6$  = 10

END