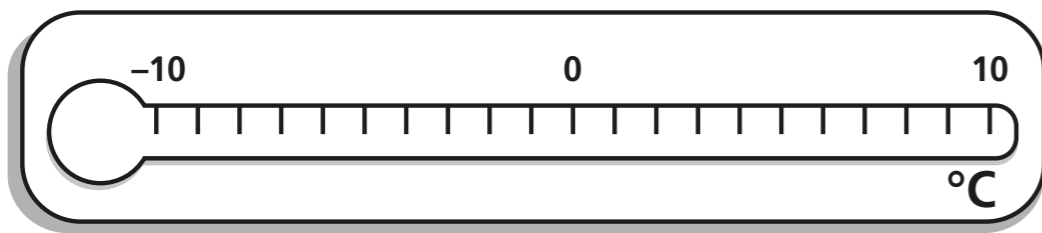


# Order directed numbers using lines and appropriate symbols

1 a) Mark where these temperatures are on the thermometer.

-8°C      7°C      2°C      -5°C

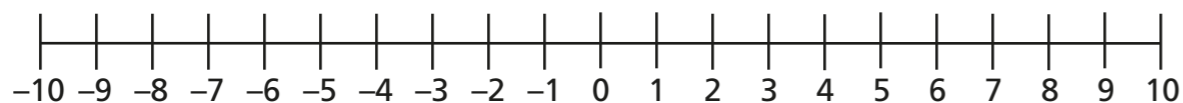


b) Write the temperatures in order from hottest to coldest.

7°C, 2°C, -5°C, -8°C

2 Write <, > or = to complete the statements.

You may use the number line to help you.



- |              |                 |
|--------------|-----------------|
| a) $-1 < 1$  | f) $-6 < 7$     |
| b) $2 > -2$  | g) $0 > -8$     |
| c) $4 > -5$  | h) $-18 < -8$   |
| d) $-4 < 5$  | i) $-26 > -226$ |
| e) $-6 > -7$ | j) $-26 < 22$   |

3 Write these numbers in ascending order.



-772, -727, -77, -72, 277, 727

Compare methods with a partner.

4 Here is part of a number line.



a) Write three numbers greater than B but less than C.

e.g. 6, 11, 13

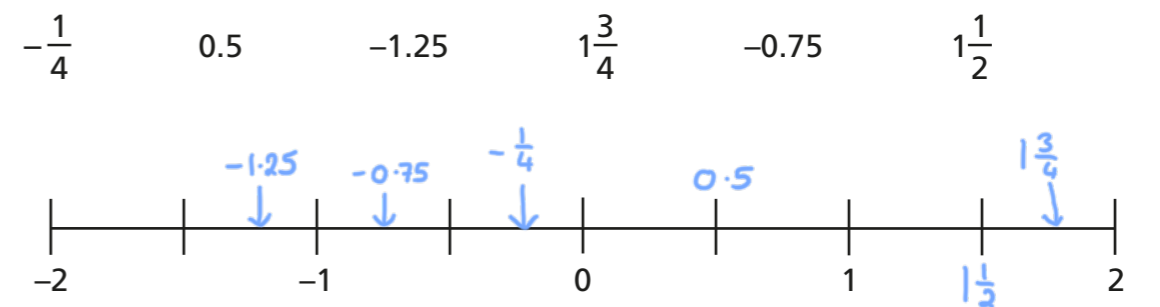
b) Write three numbers between -20 and A.

e.g. -19, -16, -11

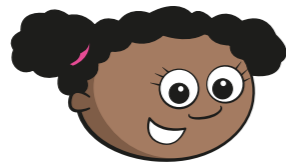
c) Write three numbers less than zero but greater than A.

e.g. -9, -5, -1

5 Label these numbers on the number line.



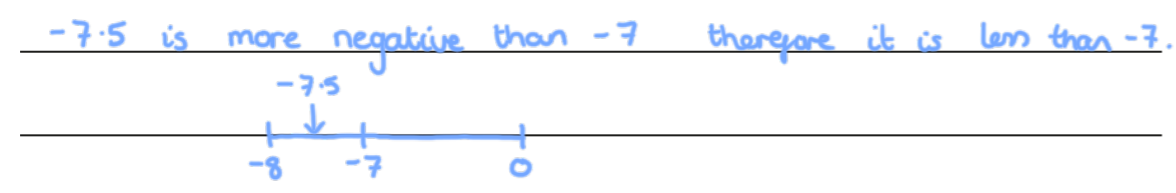
6



-7.5 is greater than -7 as 7.5 is more than 7

Explain why Whitney is incorrect.

You could use a number line to help you explain.



7

Here are five numbers.

- 200
- 200.2
- 0
- 0.2
- 20

a) Which number is the greatest?

0.2

b) Which number is the smallest?

-200.2

8

Write < or > to complete the statements.

- a)  $-2.4 < -2$        $2.4 > -2$        $-2.4 < 2$
- b)  $17.25 > -17.05$        $-17.25 < -17.05$        $-17.25 < 17.05$
- c)  $-101.3 < 101.31$        $101.3 > -101.31$        $-101.3 > -101.31$

9

Five numbers are written in ascending order.

- 7
- 4
- 3
- 
- 7

What could the 4th number be? Can you find more than one answer?

*e.g. -2*

Compare answers with a partner.

10

Write the missing digits to make the statements correct.

- Various answers e.g.*
- a)  $-7.5 > -7.\underline{5}5$   
 $-7.5 < -7.\underline{4}5$
- b)  $-6.\underline{1}.\underline{4} < -\underline{5}1.23$   
 $-6.\underline{1}.\underline{1} > -\underline{6}1.23$
- c)  $-7.3\underline{0} < -7.\underline{2}3 < -\underline{6}.37 < -6.\underline{1}3 < -\underline{5}.\underline{7}\underline{2}$

How many different answers can you find?

11

The table shows the melting points of some elements.

Element	Melting point (°C)
Fluorine	-219.6
Neon	-248.59
Sodium	97.72
Magnesium	650
Hydrogen	-259.14
Boron	2,075
Carbon	3,550
Nitrogen	-210.1
Oxygen	-218.3

- a) Which element has the lowest melting point? Hydrogen
- b) Write the elements in order, from lowest melting point to highest melting point.

Hydrogen, Neon, Fluorine, Oxygen, Nitrogen, Sodium,  
Magnesium, Boron, Carbon

