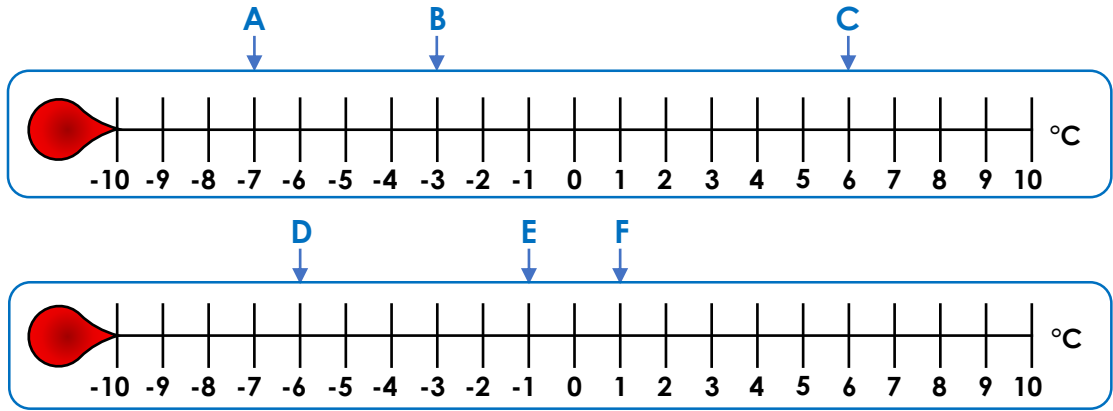


Negative Numbers

1. Identify the temperatures marked on the thermometers.

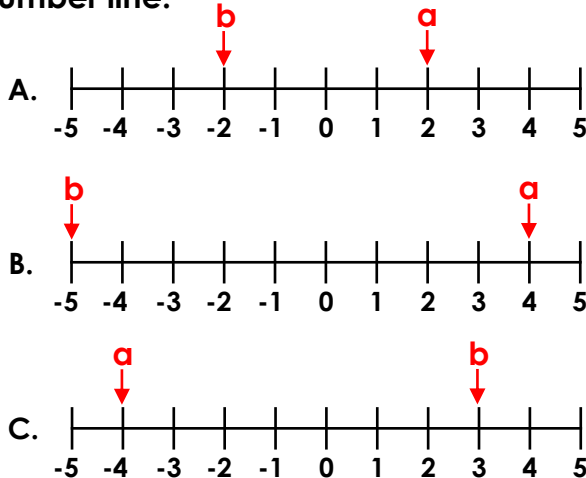


Order the temperatures in ascending order.



VF
HW/Ext

2. Match the starting temperature to the temperature change and its corresponding number line.



Starting
Temperature (Point a)

Temperature
Change (Point b)

2°C

-9°C

-4°C

+7°C

4°C

-4°C



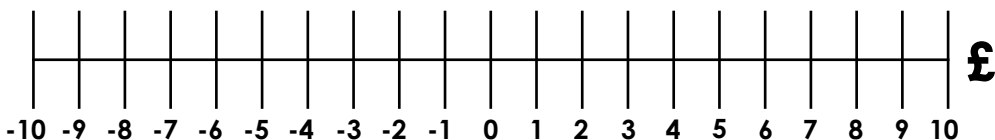
VF
HW/Ext

3. Hafsa is working out how much money she has left in her bank at the end of January, February and March. Mark her balance on the number line for each month.

A. In January, her balance is an odd amount less than -£5

B. In February, her balance is £6 more than in March.

C. In March, her balance is £4 more than in January.



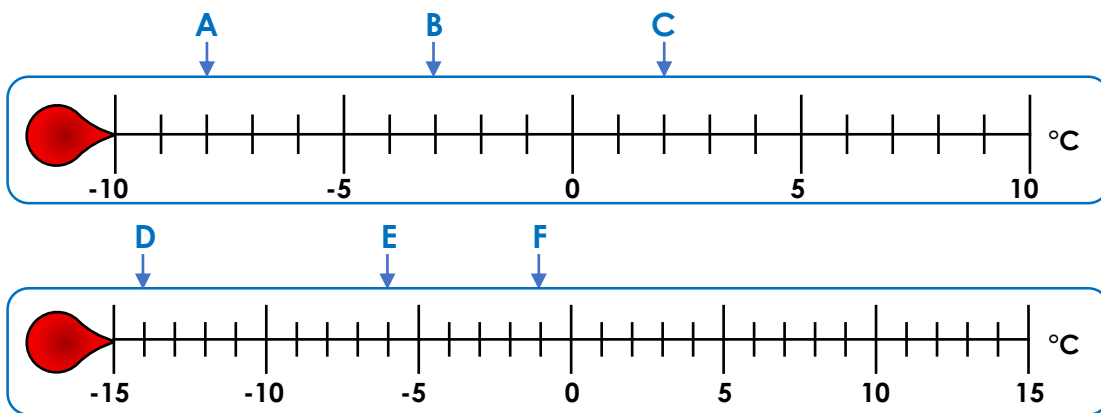
Is there more than one possible answer?



RPS
HW/Ext

Negative Numbers

4. Identify the temperatures marked on the thermometers.

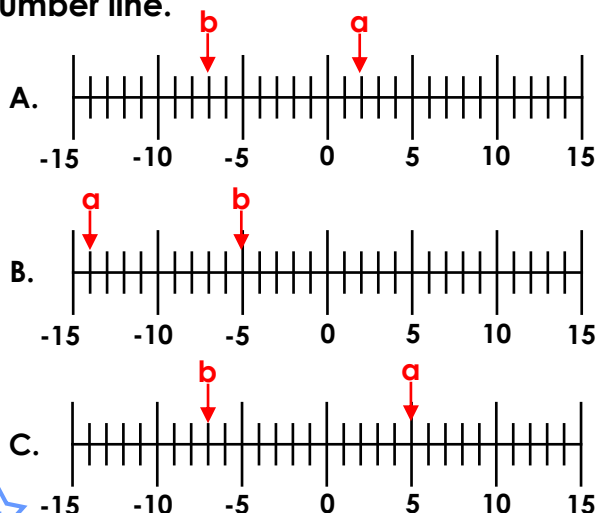


Order the temperatures in descending order.



VF
HW/Ext

5. Match the starting temperature to the temperature change and its corresponding number line.



Starting
Temperature (Point a)

Temperature
Change (point b)

2°C

-12°C

-14°C

-9°C

5°C

+9°C



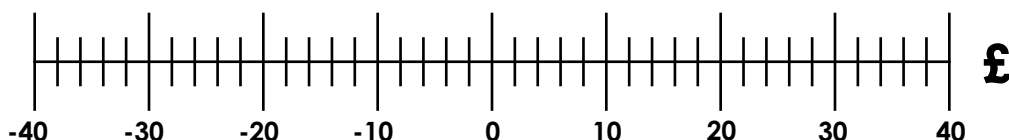
VF
HW/Ext

6. Steph is working out how much money she has left after her bills are paid in April, May and June. Mark her balance on the number line for each month.

A. In April, her balance is an even amount between -£20 and -£28

B. In May, her balance is £6 more than in June.

C. In June, her balance is £12 less than in April.



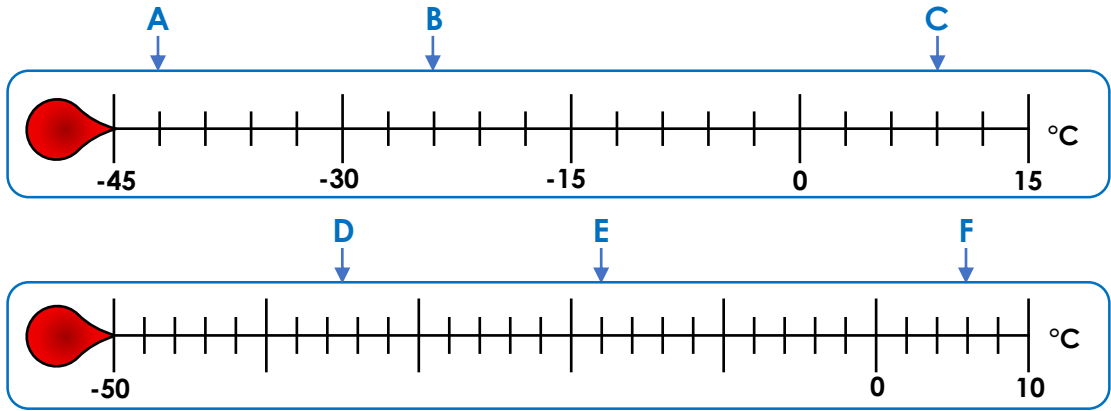
Is there more than one possible answer?



RPS
HW/Ext

Negative Numbers

7. Identify the temperatures marked on the number lines.

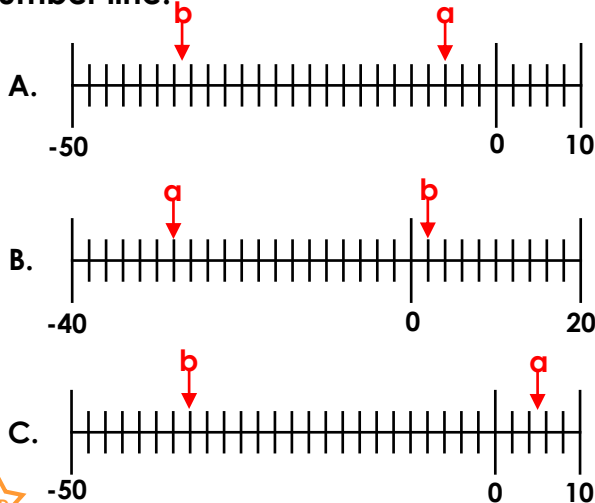


Order the temperatures in descending order.



VF
HW/Ext

8. Match the starting temperature to the temperature change and its corresponding number line.



Starting
Temperature (Point A)

Temperature
change

5°C

+30°C

-6°C

-41°C

-28°C

-31°C



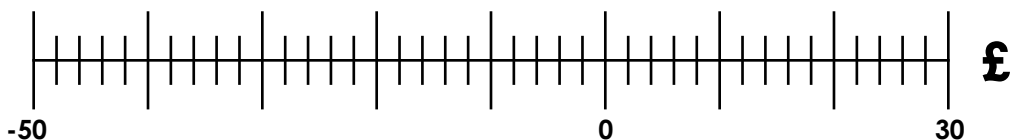
VF
HW/Ext

9. Josh is working out how much he is overdrawn by after his bills are paid in July, August and September. Mark his balance on the number line for each month.

A. In July, his balance is an odd amount between -£30 and -£40.

B. In August, his balance is £9 less than in September.

C. In September, his balance is £21 more than in July.



Is there more than one possible answer?



RPS
HW/Ext

Homework/Extension

Negative Numbers

Developing

1. $A = -7^{\circ}\text{C}$; $B = -3^{\circ}\text{C}$; $C = 6^{\circ}\text{C}$; $D = -6^{\circ}\text{C}$; $E = -1^{\circ}\text{C}$; $F = 1^{\circ}\text{C}$; Order: A, D, B, E, F, C
2. A) $a = 2^{\circ}\text{C}$, $b = -4^{\circ}\text{C}$; B) $a = 4^{\circ}\text{C}$, $b = -9^{\circ}\text{C}$; C) $a = -4^{\circ}\text{C}$, $b = +7^{\circ}\text{C}$
3. There are two possibilities: $A = -£7$, $B = £3$, $C = -£3$; $A = -£9$, $B = £1$, $C = -£5$.

Expected

4. $A = -8^{\circ}\text{C}$; $B = -3^{\circ}\text{C}$; $C = 2^{\circ}\text{C}$; $D = -14^{\circ}\text{C}$; $E = -6^{\circ}\text{C}$; $F = -1^{\circ}\text{C}$; Order: C, F, B, E, A, D
5. A) $a = 2^{\circ}\text{C}$, $b = -9^{\circ}\text{C}$; B) $a = -14^{\circ}\text{C}$, $b = +9^{\circ}\text{C}$; C) $a = 5^{\circ}\text{C}$, $b = -12^{\circ}\text{C}$
6. There are three possibilities: $A = -£22$, $B = -£28$, $C = -£34$; $A = -£24$, $B = -£30$, $C = -£36$; $A = -£26$, $B = -£32$, $C = -£38$.

Greater Depth

7. $A = -42^{\circ}\text{C}$; $B = -24^{\circ}\text{C}$; $C = 9^{\circ}\text{C}$; $D = -35^{\circ}\text{C}$; $E = -18^{\circ}\text{C}$; $F = 6^{\circ}\text{C}$; Order: C, F, E, B, D, A
8. A) $a = -6^{\circ}\text{C}$, $b = -31^{\circ}\text{C}$; B) $a = -28^{\circ}\text{C}$, $b = +30^{\circ}\text{C}$; C) $a = 5^{\circ}\text{C}$, $b = -41^{\circ}\text{C}$
9. There are five possibilities: $A = -£31$, $B = -£19$, $C = -£10$; $A = -£33$, $B = -£21$, $C = -£12$; $A = -£35$, $B = -£23$, $C = -£14$; $A = -£37$, $B = -£25$, $C = -£16$; $A = -£39$, $B = -£27$, $C = -£18$