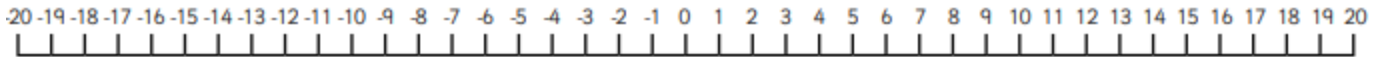


### 3.4.20 Friday place value year 4

Count backwards through 0 including negative numbers. You can use the number lines on the page, draw your own or count in

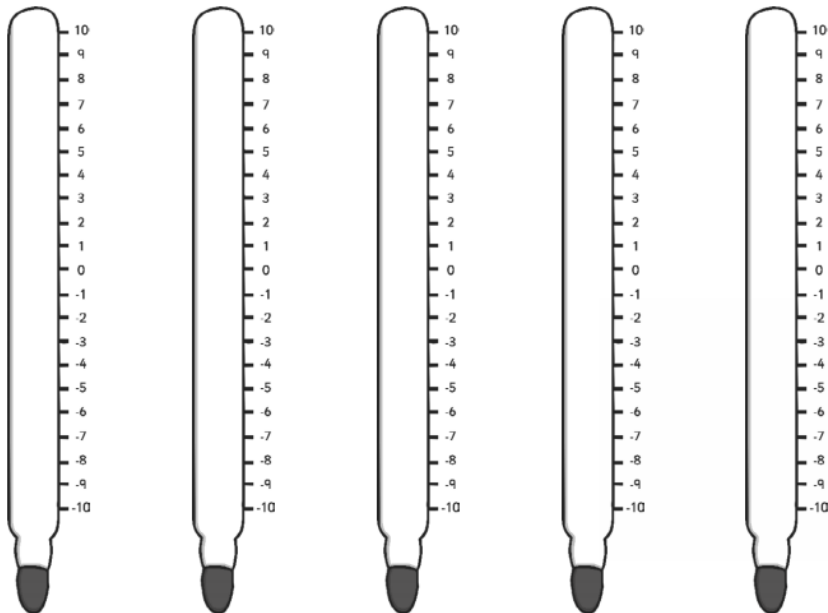
- A.** These counting back tasks can be written as sums e.g.  $7 - 8$ . 7 is the number you start on and 8 is the number of jumps you count backwards.  $7 - 8 = -1$

Use the number line below to jump with your finger to count backwards and work out the answers to the sums.



- |                                     |                                    |                                    |                                     |
|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 1. $6 - 12 =$ <input type="text"/>  | 2. $5 - 10 =$ <input type="text"/> | 3. $7 - 15 =$ <input type="text"/> | 4. $16 - 17 =$ <input type="text"/> |
| 5. $11 - 20 =$ <input type="text"/> | 6. $1 - 7 =$ <input type="text"/>  | 7. $6 - 11 =$ <input type="text"/> | 8. $19 - 30 =$ <input type="text"/> |

- B.** Being able to count back through 0 can help you understand temperature changes. Imagine a thermometer is a number line on its side. Use these thermometers for drawing jumps on to help you answer the questions



When the temperature drops, you can count backwards on your number line/thermometer and calculate the new temperature.

1. The temperature is  $7^{\circ}\text{C}$  then it falls by  $9^{\circ}\text{C}$ . What is the new temperature?
2. At six o'clock in the evening the temperature is  $11^{\circ}\text{C}$ . It falls by  $14^{\circ}\text{C}$  at night. What is the new temperature?
3. During the day the temperature is  $1^{\circ}\text{C}$ , by the evening it has fallen by  $5^{\circ}\text{C}$ . What is the new temperature?
4. The temperature is  $3^{\circ}\text{C}$  then it falls by  $12^{\circ}\text{C}$  the next day. What is the new temperature?
5. At nine o'clock in the morning the temperature is  $5^{\circ}\text{C}$ . It falls by  $9^{\circ}\text{C}$  at night. What is the new temperature?