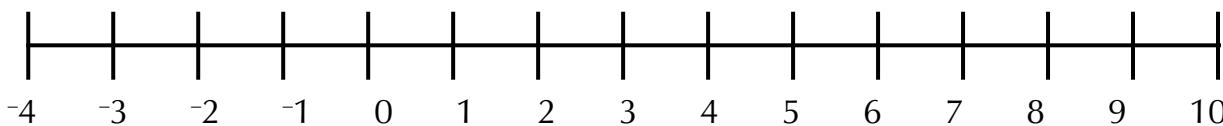


1. (a) Which is warmer 0°C or $+4^{\circ}\text{C}$
 (b) Which is warmer -2°C or -5°C
 (a) Which is warmer 0°C or -7°C
 (b) Which is warmer $+7^{\circ}\text{C}$ or $+12^{\circ}\text{C}$
 (c) Which is warmer -10°C or -8°C

2. **How many metres does a diver travel if he moves from**

- 0 to -7 metres
- -1 to -6 metres
- -1 to -10 metres
- 0 to -9 metres
- -6 to -8 metres

3. **Answer the questions about the porter at Hotel York. Use the number line.**



- If the porter started on $+9$ and then went down 11 floors, on what floor would he be?
- If he started on -4 , went up to $+7$ and then back down to $+1$, how many floors had he travelled?
- If he started on $+2$, went up 7 floors and down 11, what floor would he then be on?
- If the porter started on $+12$ and took the lift to -3 , how many floors would he have travelled? Is there a trick?
- It takes the lift 3 seconds to pass through each floor. How long does it take to get from $+2$ to $+9$?
- How long does it take to get from -3 to $+7$?
- It takes the lift an extra second to pass a floor for every 10 people that are in it. How long does it take 20 people to go from -2 to $+9$?