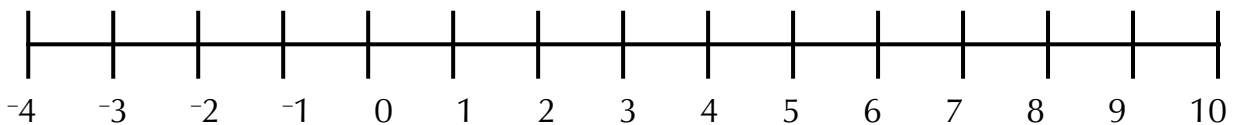


1. (a) Which is warmer  $0^{\circ}\text{C}$  or  $+4^{\circ}\text{C}$   
 (b) Which is warmer  $-2^{\circ}\text{C}$  or  $-5^{\circ}\text{C}$   
 (a) Which is warmer  $0^{\circ}\text{C}$  or  $-7^{\circ}\text{C}$   
 (b) Which is warmer  $+7^{\circ}\text{C}$  or  $+12^{\circ}\text{C}$   
 (c) Which is warmer  $-10^{\circ}\text{C}$  or  $-8^{\circ}\text{C}$
  
2. How many metres does a diver travel if he moves from  
 (a) 0 to  $-7$  metres  
 (b)  $-1$  to  $-6$  metres  
 (c)  $-1$  to  $-10$  metres  
 (d) 0 to  $-9$  metres  
 (e)  $-6$  to  $-8$  metres

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



- (a) If the porter started on  $+9$  and then went down 11 floors, on what floor would he be?
- (b) If he started on  $-4$ , went up to  $+7$  and then back down to  $+1$ , how many floors had he travelled?
- (c) If he started on  $+2$ , went up 7 floors and down 11, what floor would he then be on?
- (d) If the porter started on  $+12$  and took the lift to  $-3$ , how many floors would he have travelled? Is there a trick?
- (e) It takes the lift 3 seconds to pass through each floor. How long does it take to get from  $+2$  to  $+9$ ?
- (f) How long does it take to get from  $-3$  to  $+7$ ?
- (g) 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  $+9$ ?

Name: \_\_\_\_\_ Date: \_\_\_\_\_