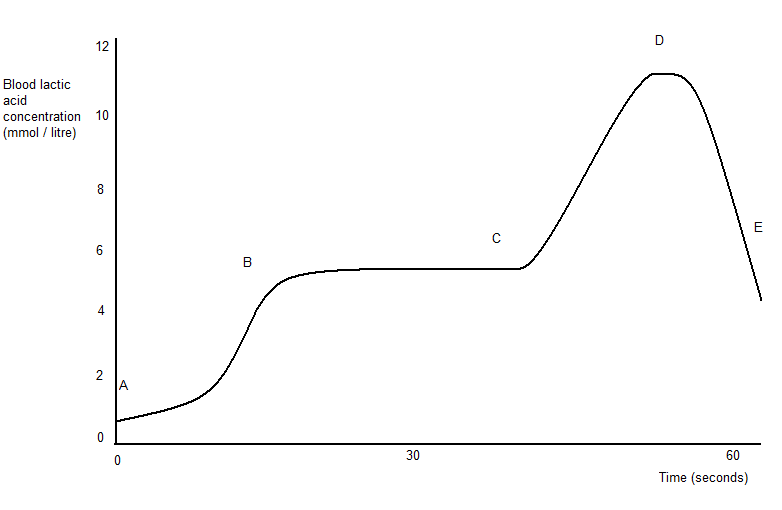
**Respiration in athletics**

The blood of an athlete was tested before, during and after a 400m race:



Complete the following table about each section of the race:

1. Describe the strategy of the runner.
2. Provide evidence from the graph by describing the change in lactic acid concentration.
3. Explain what is causing the change in lactic acid concentration.

|  |  |  |  |
| --- | --- | --- | --- |
| Section of race | Strategy | Evidence | Explanation |
| A to B | Sprint start | Initially slow increase, then rapid increase in lactic acid concentration | Respiration changed from aerobic to anaerobic because not enough oxygen could reach the muscles. |
| B to C |  |  |  |
| C to D |  |  |  |
| D to E  (after the race has finished) |  |  |  |