

|                    |                   |                     |                           |                     |
|--------------------|-------------------|---------------------|---------------------------|---------------------|
| <b>B</b>           | <b>I</b>          | <b>N</b>            | <b>G</b>                  | <b>O</b>            |
| speed              | acceleration      | deceleration        | no<br>motion              | kilometers          |
| constraints        | runner            | m/sec               | average<br>speed          | motion              |
| reference<br>point | time              | <b>FREE</b>         | change<br>in<br>direction | formula             |
| hours              | position          | increasing<br>speed | distance-time<br>graph    | km/min <sup>2</sup> |
| distance           | constant<br>speed | m/sec <sup>2</sup>  | velocity                  | criteria            |

|                        |                           |                    |                   |              |
|------------------------|---------------------------|--------------------|-------------------|--------------|
| <b>B</b>               | <b>I</b>                  | <b>N</b>           | <b>G</b>          | <b>O</b>     |
| time                   | average<br>speed          | no<br>motion       | constraints       | m/sec        |
| deceleration           | velocity                  | kilometers         | constant<br>speed | motion       |
| hours                  | change<br>in<br>direction | <b>FREE</b>        | formula           | acceleration |
| distance-time<br>graph | m/sec <sup>2</sup>        | speed              | criteria          | position     |
| increasing<br>speed    | km/min <sup>2</sup>       | reference<br>point | runner            | distance     |

|                 |                    |                  |                     |                     |
|-----------------|--------------------|------------------|---------------------|---------------------|
| <b>B</b>        | <b>I</b>           | <b>N</b>         | <b>G</b>            | <b>O</b>            |
| constant speed  | m/sec <sup>2</sup> | average speed    | km/min <sup>2</sup> | change in direction |
| speed           | hours              | increasing speed | runner              | kilometers          |
| reference point | criteria           | <b>FREE</b>      | position            | distance-time graph |
| time            | motion             | no motion        | velocity            | deceleration        |
| formula         | acceleration       | m/sec            | constraints         | distance            |