| 1 | | | |
|---|-------------------|---------|---------------------|
| | Ro | ck Give | ens |
| | y _{R0} = | 108 | (m) |
| | v _{R0} = | 78 | (m/s) |
| | a _R = | -9.8 | (m/s ²) |

| Ball | oon Giv | ens/ |
|-------------------|---------|---------------------|
| y _{B0} = | 253 | (m) |
| v _{B0} = | -43 | (m/s) |
| a _R = | 4.3 | (m/s ²) |

$$\Delta t = 0.65$$
 (s)

| | t | y _R | V _R | y _B | V _B | (y_R-y_B) |
|----|------|-----------------------|-----------------------|-----------------------|-----------------------|-------------|
| N | (s) | (m) | (m/s) | (m) | (m/s) | (m) |
| 0 | 0.0 | 108.0 | 78.0 | 253.0 | -43.0 | -145.0 |
| 1 | 0.7 | 156.6 | 71.6 | 226.0 | -40.2 | -69.3 |
| 2 | 1.3 | 201.1 | 65.3 | 200.7 | -37.4 | 0.4 |
| 3 | 2.0 | 241.5 | 58.9 | 177.3 | -34.6 | 64.1 |
| 4 | 2.6 | 277.7 | 52.5 | 155.7 | -31.8 | 121.9 |
| 5 | 3.3 | 309.7 | 46.2 | 136.0 | -29.0 | 173.8 |
| 6 | 3.9 | 337.7 | 39.8 | 118.0 | -26.2 | 219.7 |
| 7 | 4.6 | 361.5 | 33.4 | 101.9 | -23.4 | 259.6 |
| 8 | 5.2 | 381.1 | 27.0 | 87.5 | -20.6 | 293.6 |
| 9 | 5.9 | 396.6 | 20.7 | 75.0 | -17.8 | 321.6 |
| 10 | 6.5 | 408.0 | 14.3 | 64.3 | -15.1 | 343.6 |
| 11 | 7.2 | 415.2 | 7.9 | 55.5 | -12.3 | 359.7 |
| 12 | 7.8 | 418.3 | 1.6 | 48.4 | -9.5 | 369.9 |
| 13 | 8.5 | 417.2 | -4.8 | 43.2 | -6.7 | 374.1 |
| 14 | 9.1 | 412.0 | -11.2 | 39.7 | -3.9 | 372.3 |
| 15 | 9.8 | 402.7 | -17.6 | 38.1 | -1.1 | 364.6 |
| 16 | 10.4 | 389.2 | -23.9 | 38.3 | 1.7 | 350.9 |
| 17 | 11.1 | 371.6 | -30.3 | 40.4 | 4.5 | 331.2 |
| 18 | 11.7 | 349.8 | -36.7 | 44.2 | 7.3 | 305.6 |
| 19 | 12.4 | 323.9 | -43.0 | 49.9 | 10.1 | 274.1 |
| 20 | 13.0 | 293.9 | -49.4 | 57.4 | 12.9 | 236.6 |
| 21 | 13.7 | 259.7 | -55.8 | 66.6 | 15.7 | 193.1 |
| 22 | 14.3 | 221.4 | -62.1 | 77.8 | 18.5 | 143.6 |
| 23 | 15.0 | 178.9 | -68.5 | 90.7 | 21.3 | 88.3 |
| 24 | 15.6 | 132.3 | -74.9 | 105.4 | 24.1 | 26.9 |
| 25 | 16.3 | 81.6 | -81.3 | 122.0 | 26.9 | -40.4 |





