

25 rules of all combination of {speed = veru slow, slow, medium, fast, very fast} and {distance = very short, short, medium, long, very long}:

1. IF x=very slow AND y=very short THEN z=medium
2. IF x=very slow AND y=short THEN z=weak
3. IF x=very slow AND y=medium THEN z=weak
4. IF x=very slow AND y=fast THEN z=very weak
5. IF x=very slow AND y=very fast THEN z=very weak

6. IF x=slow AND y=very short THEN z=medium
7. IF x=slow AND y=short THEN z=medium
8. IF x=slow AND y=medium THEN z=weak
9. IF x=slow AND y=fast THEN z=very weak
10. IF x=slow AND y=very fast THEN z=very weak

11. IF x=medium AND y=very short THEN z=strong
12. IF x=medium AND y=short THEN z=medium
13. IF x=medium AND y=medium THEN z=medium
14. IF x=medium AND y=fast THEN z=weak
15. IF x=medium AND y=very fast THEN z=very weak

16. IF x=fast AND y=very short THEN z=very strong
17. IF x=fast AND y=short THEN z=strong
18. IF x=fast AND y=medium THEN z=strong
19. IF x=fast AND y=fast THEN z=medium
20. IF x=fast AND y=very fast THEN z=weak

21. IF x=very fast AND y=very short THEN z=very strong
22. IF x=very fast AND y=short THEN z=very strong
23. IF x=very fast AND y=medium THEN z=strong
24. IF x=very fast AND y=fast THEN z=strong
25. IF x=very fast AND y=very fast THEN z=medium

Table after calculations:

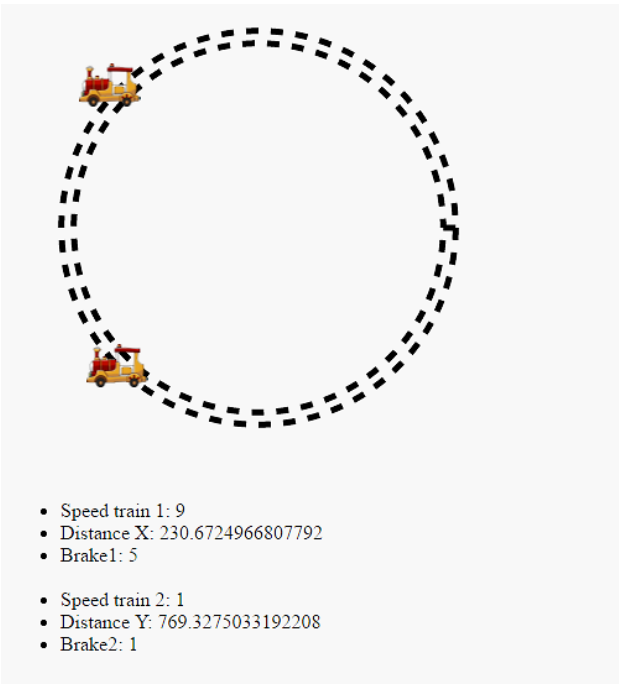
Speed	Distance	Balance
0	0	4,50
0	200	3,00
0	400	3,00
0	600	3,00
0	800	0,87
0	1000	0,87
1	0	4,50
1	200	3,00
1	400	3,00
1	600	3,00
1	800	0,87
1	1000	0,87
2	0	4,50
2	200	3,00
2	400	3,00
2	600	3,00
2	800	0,87
2	1000	0,87
3	0	4,50
3	200	3,24
3	400	3,00
3	600	3,00
3	800	0,88
3	1000	0,88
4	0	4,50
4	200	3,63
4	400	3,00
4	600	3,00
4	800	0,87
4	1000	0,87
5	0	4,5
5	200	4,0625
5	400	3
5	600	3
5	800	0,875
5	1000	0,875

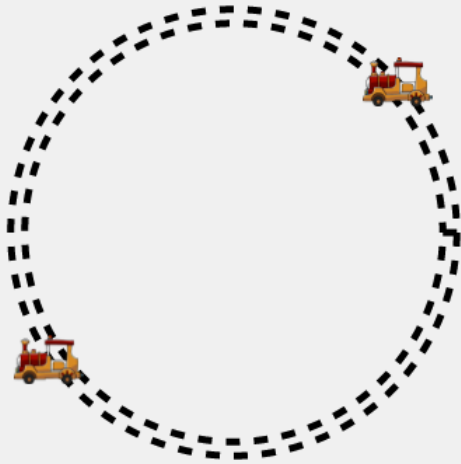
Speed	Distance	Balance
6	0	4,50
6	200	4,50
6	400	3,00
6	600	3,00
6	800	0,87
6	1000	0,87
7	0	4,94
7	200	4,50
7	400	3,24
7	600	3,00
7	800	0,88
7	1000	0,88
8	0	5,38
8	200	4,50
8	400	3,63
8	600	3,00
8	800	0,87
8	1000	0,87
9	0	5,76
9	200	4,50
9	400	4,06
9	600	3,00
9	800	0,88
9	1000	0,88
10	0	6,00
10	200	4,50
10	400	4,50
10	600	3,00
10	800	0,87
10	1000	0,87

Speed	Distance	Balance
11	0	7,13
11	200	4,94
11	400	4,94
11	600	3,24
11	800	1,21
11	1000	1,21
12	0	7,87
12	200	5,38
12	400	5,38
12	600	3,63
12	800	1,67
12	1000	1,67
13	0	8,32
13	200	5,76
13	400	5,76
13	600	4,06
13	800	2,29
13	1000	2,29
14	0	8,64
14	200	6,00
14	400	6,00
14	600	4,50
14	800	3,00
14	1000	3,00
15	0	8,64
15	200	7,13
15	400	6,00
15	600	4,94
15	800	3,24
15	1000	3,24

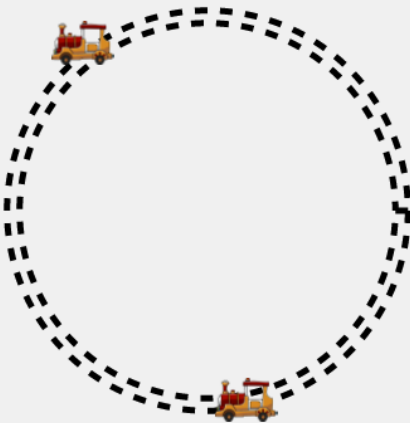
Speed	Distance	Balance
16	0	8,64
16	200	7,87
16	400	6,00
16	600	5,38
16	800	3,63
16	1000	3,63
17	0	8,64
17	200	8,32
17	400	6,00
17	600	5,76
17	800	4,06
17	1000	4,06
18	0	8,64
18	200	8,64
18	400	6,00
18	600	6,00
18	800	4,50
18	1000	4,50
19	0	8,64
19	200	8,64
19	400	6,00
19	600	6,00
19	800	4,50
19	1000	4,50
20	0	8,64
20	200	8,64
20	400	6,00
20	600	6,00
20	800	4,50
20	1000	4,50

Snapshots of trains

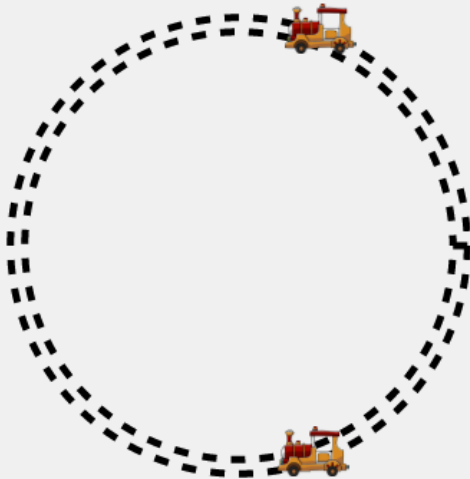




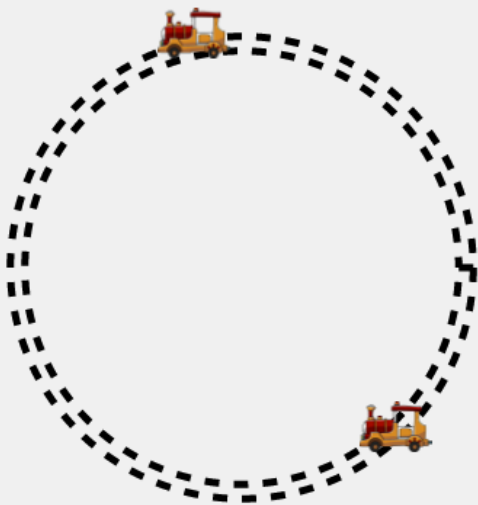
- Speed train 1: 20
- Distance X: 503.03279396651845
- Brake1: 6
- Speed train 2: 18
- Distance Y: 496.96720603348155
- Brake2: 6



- Speed train 1: 3
- Distance X: 447.44905982657167
- Brake1: 3
- Speed train 2: 7
- Distance Y: 552.5509401734283
- Brake2: 3



- Speed train 1: 17
- Distance X: 622.5378223674041
- Brake1: 6
- Speed train 2: 17
- Distance Y: 377.46217763259585
- Brake2: 6



- Speed train 1: 3
- Distance X: 641.9921293163856
- Brake1: 3
- Speed train 2: 20
- Distance Y: 358.00787068361444
- Brake2: 6