

|    |    |    |
|----|----|----|
| 3+ | 2  | 5+ |
| 1  | 2  | 3  |
| 4+ | 3  | 1  |
| 2  | 4+ | 3  |
| 2  | 3  | 1  |

31-1 www.kenken.com

|    |    |    |
|----|----|----|
| 5+ | 3+ | 1  |
| 3  | 2  | 1  |
| 2  | 1  | 5+ |
| 4+ | 1  | 3  |
| 1  | 3  | 2  |

31-2 www.kenken.com

|    |    |    |
|----|----|----|
| 2- | 1- | 2  |
| 3  | 1  | 2  |
| 1  | 2  | 2- |
| 5+ | 2  | 3  |
| 2  | 3  | 1  |

31-3 www.kenken.com

|    |    |   |
|----|----|---|
| 1- | 2- | 1 |
| 3  | 2  | 1 |
| 2  | 5+ | 3 |
| 1  | 3  | 2 |

31-4 www.kenken.com

|    |    |    |
|----|----|----|
| 6× | 2  | 3× |
| 3  | 2  | 1  |
| 2  | 3× | 3  |
| 1  | 3  | 2  |

31-5 www.kenken.com

|     |   |    |
|-----|---|----|
| 18× | 1 | 1  |
| 3   | 2 | 1  |
| 2-  | 3 | 6× |
| 1   | 3 | 2  |
| 2   | 1 | 3  |

31-6 www.kenken.com

|    |    |    |    |
|----|----|----|----|
| 5+ | 2  | 7+ | 3+ |
| 4  | 2  | 3  | 1  |
| 1  | 9+ | 4  | 2  |
| 2  | 4  | 1  | 3  |
| 3  | 7+ | 2  | 4  |

31-7 www.kenken.com

|    |    |     |
|----|----|-----|
| 8+ | 3+ | 11+ |
| 3  | 1  | 2   |
| 2  | 3  | 4   |
| 1  | 4  | 3   |
| 4  | 2  | 1   |

31-8 www.kenken.com

|    |    |     |   |
|----|----|-----|---|
| 1- | 2- | 2-  | 1 |
| 2  | 4  | 3   | 1 |
| 1  | 2  | 11+ | 3 |
| 1- | 3+ | 1   | 2 |
| 4  | 3  | 1   | 2 |

31-9 www.kenken.com

|     |     |    |
|-----|-----|----|
| 12× | 2-  | 6× |
| 3   | 2   | 4  |
| 4   | 12× | 1  |
| 1   | 4   | 2  |
| 2   | 1   | 3  |

31-10 www.kenken.com

|     |    |   |
|-----|----|---|
| 12× | 3+ | 1 |
| 4   | 3  | 2 |
| 1-  | 3  | 2 |
| 2   | 1  | 4 |
| 1   | 4  | 3 |

31-11 www.kenken.com

|     |    |    |
|-----|----|----|
| 3   | 1- | 8× |
| 3   | 2  | 1  |
| 13+ | 4  | 3  |
| 1   | 4  | 3  |
| 2   | 1  | 4  |

31-12 www.kenken.com

|    |    |    |     |
|----|----|----|-----|
| 6+ | 5+ | 7+ | 11+ |
| 1  | 5  | 2  | 3   |
| 3+ | 2  | 1  | 3   |
| 5  | 3  | 4  | 1   |
| 3  | 4  | 5  | 2   |

31-13 www.kenken.com

|    |    |     |
|----|----|-----|
| 6+ | 4- | 12+ |
| 1  | 2  | 5   |
| 1- | 4  | 3   |
| 3  | 5  | 4   |
| 2  | 1  | 3   |

31-14 www.kenken.com

|    |    |    |    |
|----|----|----|----|
| 2- | 9+ | 2- | 4- |
| 4  | 2  | 5  | 3  |
| 6× | 2  | 3  | 4  |
| 3  | 5  | 1  | 4  |
| 5  | 1  | 3  | 2  |

31-15 www.kenken.com

|    |    |     |
|----|----|-----|
| 1- | 2- | 20× |
| 3  | 2  | 1   |
| 4  | 1  | 3   |
| 5  | 3  | 4   |
| 1  | 5  | 2   |

31-16 www.kenken.com

|     |     |    |
|-----|-----|----|
| 60× | 1   | 7+ |
| 6   | 2   | 5  |
| 5-  | 11+ | 8+ |
| 1   | 6   | 2  |
| 4   | 1   | 3  |

31-17 www.kenken.com

|    |      |     |   |
|----|------|-----|---|
| 3- | 60×  | 14+ | 1 |
| 3  | 6    | 4   | 2 |
| 2- | 120× | 2-  | 2 |
| 5  | 3    | 1   | 4 |
| 2  | 5    | 3   | 6 |

31-18 www.kenken.com

|    |     |     |    |
|----|-----|-----|----|
| 5- | 1-  | 60× | 3- |
| 1  | 7   | 6   | 3  |
| 6  | 11+ | 4   | 2  |
| 4  | 6   | 3   | 5  |
| 2  | 3   | 1   | 7  |

31-19 www.kenken.com

|    |    |    |    |
|----|----|----|----|
| 1- | 4- | 1- | 3- |
| 4  | 3  | 5  | 1  |
| 5  | 7  | 3  | 8  |
| 2  | 4  | 6  | 7  |
| 8  | 6  | 1  | 2  |

31-20 www.kenken.com

|    |     |    |     |     |
|----|-----|----|-----|-----|
| 2- | 84× | 3  | 9+  | 4-  |
| 6  | 4   | 7  | 3   | 2   |
| 4  | 3   | 8  | 6   | 7   |
| 8  | 4-  | 1- | 17+ | 24× |
| 3  | 8   | 2  | 7   | 4   |

### This Week's KENtertainment:

**Answer:** The ball on the cycloidal path will hit the target first.

**Here's how:** The ball on the cycloidal path speeds up more rapidly than the ball on the straight path in the early part of its descent, and its momentum keeps it ahead as it rolls up the last lip. Scientists have put a great deal of time into understanding these shapes, and have determined that the cycloidal creates the fastest track.