SAME NUMBERS. DIFFERENT ROUTE.

Six target-ten puzzles | Keep page 2 separate until you finish.

Rule Below 10: feed and stop. Exactly 10: clear and stop.
Above 10: clear and carry only the amount above 10 onward.

Predict A, B or tie. Trace both routes. Count only beasts cleared.

1. Launch 5

A: 2 > 8

B: 8 > 2

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

2. Launch 7

A: 5 > 8

B: 8 > 5

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

3. Launch 8

A: 4 > 9 > 7

B: 4 > 7 > 9

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

4. Launch 4

A: 3 > 7 > 9

B: 9 > 7 > 3

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

5. Launch 9

A: 1 > 6

B: 6 > 1

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

6. Launch 3

A: 9 > 8 > 4

B: 4 > 8 > 9

Prediction: A / B / tie

A clears ___ B clears ___

First stopping point: _____

Two different traces can tie. Explain why both routes clear one beast in puzzle 5.

THE ANSWER DESK

Trace each collision. Untouched beasts do not count as cleared.

1. B clears more | A clears 0, B clears 1

A 5 + 2 = 7: feed, stop.

B 5 + 8 = 13: clear, carry 3.
3 + 2 = 5: feed, stop.

2. Tie | A clears 2, B clears 2

A 7 + 5 = 12: clear, carry 2.
2 + 8 = 10: clear, stop.

B 7 + 8 = 15: clear, carry 5.
5 + 5 = 10: clear, stop.

3. A clears more | A clears 2, B clears 1

A 8 + 4 = 12: clear, carry 2.
2 + 9 = 11: clear, carry 1.
1 + 7 = 8: feed, stop.

B 8 + 4 = 12: clear, carry 2.
2 + 7 = 9: feed, stop.

4. B clears more | A clears 0, B clears 2

A 4 + 3 = 7: feed, stop.

B 4 + 9 = 13: clear, carry 3.
3 + 7 = 10: clear, stop.

5. Tie | A clears 1, B clears 1

A 9 + 1 = 10: clear, stop.

B 9 + 6 = 15: clear, carry 5.
5 + 1 = 6: feed, stop.

6. A clears more | A clears 2, B clears 0

A 3 + 9 = 12: clear, carry 2.
2 + 8 = 10: clear, stop.

B 3 + 4 = 7: feed, stop.

Puzzle 5: A leaves the 6 untouched. B changes the remaining 1 into a 6.
Both clear one, but their histories differ. Neither proves a best full-board strategy.