ANSWER KEY

Giraffe: Narrow the Guess · Ages 5–7

Compare reasoning, not only a final digit.

1 · Build the fences

1A: 30–39 inclusive. Minimum: 30 + 0; maximum: 30 + 9. Include every whole number between. 1B: circle 30, 36, and 39 only. 29 is below the known 30; 40 would require 10 in a pocket with capacity 9. Hint: start with the closed pocket empty.



Own worksheet

2 · Prove a possibility

2A: 22 only. The full possible range is 20–24 inclusive, so 19 and 25 are impossible. 2B: LEFT/RIGHT pairs (0, 2), (1, 1), and (2, 0), in any row order. Accept rods, digits, or a clear pointing explanation. Each pair sums to 2. No other arrangements fit capacities 0–2. Hint: start with an empty left pocket and move one rod at a time.



Own worksheet

3 · Repair the fences

3A: 30–39 inclusive. Any one of 30, 31, 32, 33, or 34 is a valid missed possibility. Accept pointing to any of these on the corrected line. 3B: any one of 40, 41, 42, 43, 44, or 45 is a valid impossible extra value. Draw exactly 9 rods, one per slot; the maximum total is 39. A valid explanation says the pocket cannot supply 10 or more. Hint: test the empty and full pocket separately.



Own worksheet

4 · Follow the new clue

4A: 41–43 inclusive. Four tens plus the revealed 1 gives 41; the remaining pocket can add 0, 1, or 2. 4B: 43–43 inclusive (both fences meet at 43), because 40 + 1 + 2 = 43. Opening changes our information, not the number of rods. Accept one clearly marked 43 with an explanation that both ends coincide. Hint: cover only the pocket that is still closed; leave known rods visible.



Own worksheet

GENERAL RESPONSE GUIDE

Compare the child's range, pairs, or explanation with every valid response shown above. Accept equivalent explanations, any row order, and different valid open answers. Both ends may coincide when new evidence fixes an exact total. Drawing skill and spelling are not assessed, and freehand work is not automatically graded.