

# Comet Party Challenge: free preview

Three sample questions from the offline Party Challenge Pack.

The complete pack contains 30 original questions in 3 rounds, host instructions and opening script, a reusable team answer sheet, a host scoreboard, and fully explained answers. Includes a 9-page printable PDF and an accessible offline HTML edition. Proposed one-time price: \$5. Availability depends on checkout being enabled. This preview does not collect payments.

1. The mean of four numbers is 12. Three are 7, 11 and 14. What is the fourth?
2. A three-digit lock code uses 2, 5 and 8 exactly once. It is greater than 500 and less than 800. Its final digit is even and smaller than its first digit. What is the code?
3. You have 4 distinct books. Two particular books must stay next to each other, in either order. How many different left-to-right arrangements of all four books are possible?

## Answers (spoilers)

1. 16. The total must be  $4 \times 12 = 48$ . The known numbers sum to 32, leaving 16.
2. 582. The first digit must be 5. The final digit must be even and below 5, so it is 2. The middle digit is 8.
3. 12. Treat the adjacent pair as one block. Arrange that block and the two other books in  $3! = 6$  ways. The block has two internal orders, so  $6 \times 2 = 12$ .

Play for fun. This is not an IQ test or psychological assessment.