

# Games

*Approach:* Independent

*Level:* Year 8

*Focus:* Combinations.

*Resources:* none.

*Questions/instructions*

*% responses*

y4 y8



6 teams play in a table tennis competition. Each team plays each of the other teams once.

1. What is the total number of games played in the competition?

15

15

~~X~~ 30

19

Show how you worked that out:

computational method ( not listing games)

34

systematic listing of games

29

Seemingly random listing of games

7

## *Commentary*

Only 15 percent of year 8 students determined the correct answer, with many of those who used a computational method counting each combination (game) twice.