31 Three monkeys

There are 10 possibilities:

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1, 3, 21 3, 5, 17
1, 5, 19 3, 7, 15
1, 7, 17 3, 9, 13
1, 9, 15 5, 7, 13
1, 11, 13 5, 9, 11
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What if the monkeys ate 24 nuts, with each of them eating a different even number of nuts?

The possible answers are:

2, 4, 18 4, 6, 14 2, 6, 16 4, 8, 12 2, 8, 14 6, 8, 10 2, 10, 12

32 Card tricks

Systematic working helps to make sure that all possibilities have been considered.

Four different cards with a total of 20 are:

Three different cards with a total of 16 are:

You could try other totals. For example, four cards with a total of 18 are:

Explore the different totals that can be made with four cards. (It is possible to make any total from 10 to 26.)