

Cambridge Home Learning

Answer Sheet

Notes: Card tricks

6 to 8

Solution and notes

3 cards with a total of 16 are:

1, 7, 8

2, 6, 8

3, 5, 8

3, 6, 7

4, 5, 7

4 cards with a total of 20 are:

1, 4, 7, 8 2, 3, 7, 8 3, 4, 5, 8

1, 5, 6, 8 2, 4, 6, 8 3, 4, 6, 7

2, 5, 6, 7

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

Extensions

You could try other totals.

For example, 4 cards with a total of 18 are:

1, 2, 7, 8 2, 3, 6, 7 3, 4, 5, 6

1, 3, 6, 8 2, 4, 5, 7

1, 4, 5, 8

1, 4, 6, 7

Children could also explore the different totals that can be made with 4 cards.

It is possible to make any total from 10 (with 1, 2, 3, 4) to 26 (with 5, 6, 7, 8).

Add 3 or 4 small numbers
Work systematically