Cambridge Home Learning

Answer Sheet

Notes: Dan's sweets

6 to 8

Solution

The cost of the two sweets Dan ate could be:

9p + 8p = 17p

7p + 8p = 15p

6p + 8p = 14p

9p + 4p = 13p or 5p + 8p = 13p

9p + 3p = 12p

7p + 4p = 11p

7p + 3p = 10p or 6p + 4p = 10p

6p + 3p = 9p or 5p + 4p = 9p

5p + 3p = 8p

Notes

Work systematically.

There are 4 toffees and 3 chews, and there are 4×3 possible ways of picking one toffee and one chew.

For the numbers involved in this particular puzzle, four of the totals can be made in two different ways.

Extension

It is easy to make up similar problems. The possible ways of choosing one of m things and one of n things is $m \times n$.

Find a total of two numbers less than 10
Work systematically