

# Maths Problems

## Problem solving: Using tables

You will need paper and a pencil.

Draw up tables and use guess-and-check to solve these problems.

1.

Jacob and Harry collect marbles. Jacob has 3 more marbles than Marc. Together they have 21.

How many marbles do each of them have?

Jacob	Harry	Total marbles

1.

Jacob and Harry collect marbles. Jacob has 3 more marbles than Marc. Together they have 21.

How many marbles do each of them have?

Jacob	Harry	Total marbles
12	9	21

2.

Mrs Kind bought a total of 14 ice-creams and ice-lollies for her children and their friends. Ice-creams cost £1 each, while ice-lollies cost 50p each. If Mrs Kind spent £10 altogether, how many of each did she buy?

Ice-creams (£1)	Ice-lollies (50p)	Total spent

2.

Mrs Kind bought a total of 14 ice-creams and ice-lollies for her children and their friends. Ice-creams cost £1 each, while ice-lollies cost 50p each. If Mrs Kind spent £10 altogether, how many of each did she buy?

Ice-creams (£1)	Ice-lollies (50p)	Total spent
6	8	£10

3.

Nathan has some 5p and 10p coins in his pocket.

Find out how many of each coin he has if:

3.

(a) he has 40p altogether and a total of 6 coins



3.

(a)

5p coins	10p coins	Total coins	Total amount

3.

(a)

5p coins	10p coins	Total coins	Total amount
4	2	6	40p

3.

(b) he has 80p altogether and a total of 11 coins

3.

(b)

5p coins	10p coins	Total coins	Total amount

3.

(b)

5p coins	10p coins	Total coins	Total amount
6	5	11	80p

3.

(c) he has 45p altogether and a total of 6 coins

3.

(c)

5p coins	10p coins	Total coins	Total amount

3.

(c)

5p coins	10p coins	Total coins	Total amount
3	3	6	45p



3.

(d) he has 70p altogether and a total of 8 coins

3.

(d)

5p coins	10p coins	Total coins	Total amount

3.

(d)

5p coins	10p coins	Total coins	Total amount
2	6	8	70p

3.

(e) he has 50p altogether and a total of 8 coins

3.

(e)

5p coins	10p coins	Total coins	Total amount

3.

(e)

5p coins	10p coins	Total coins	Total amount
6	2	8	50p

"There is strength in numbers... but even more so in collective good will. For those endeavours are supported by mighty forces unseen."

*Richelle E. Goodrich*