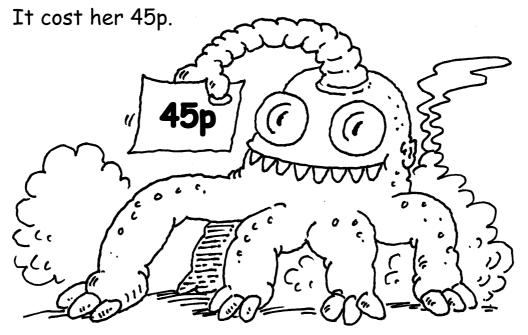
Monster

Alesha bought a monster using only silver coins.



There are nine different ways to pay 45p exactly using only silver coins.

Find as many as you can.

What if the monster cost 50p?

How many different ways are there to pay now?

Teaching objectives

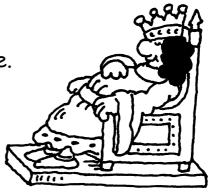
Solve mathematical problems or puzzles. Find totals.

Work out which coins to pay.

16

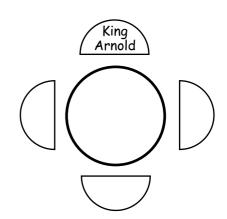
King Arnold

King Arnold sits at a Round Table.



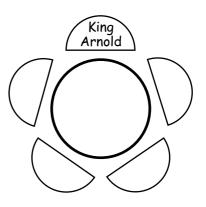
There are 3 empty seats.

In how many different ways can 3 knights sit in them?



What if there are 4 empty seats?

In how many different ways can 4 knights sit in them?



48

Teaching objectives

Solve mathematical problems or puzzles. Solve a problem by organising information. Explain methods and reasoning.

Presents

Gurmit paid £21 for five presents.



For A and B he paid a total of £6.

For B and C he paid a total of £10.

For C and D he paid a total of £7.

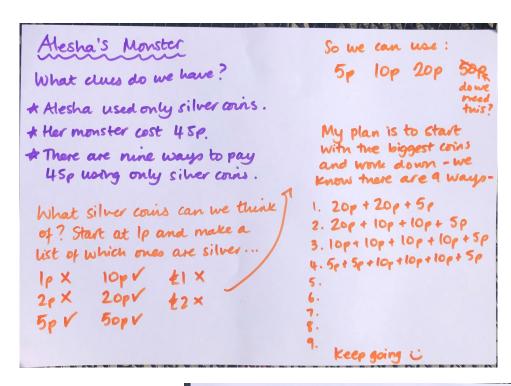
For D and E he paid a total of £9.

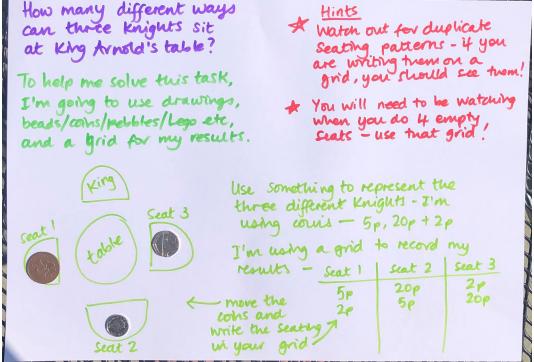
How much did Gurmit pay for each present?

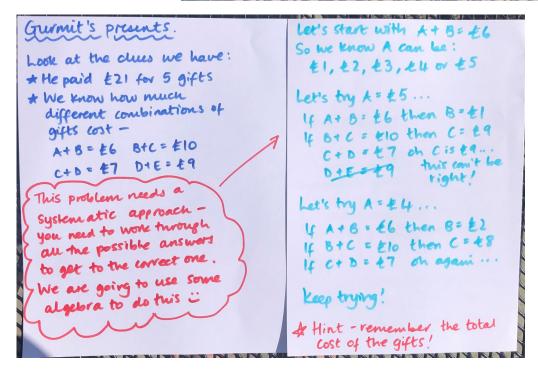
57

Teaching objectives

Solve a given problem by organising information. Explain methods and reasoning.







Answer sheet

Gurmit's Presents

Gurmit paid £2, £4, £6, £1 and £8 for the five presents.

King Arnold's Seats

Three knights can sit with King Arnold in 6 different ways.

Four knights can sit with King Arnold in 24 different ways.

Alesha's Monster

Alesha can use these coins to pay 45p:

two 20p and one 5p one 20p
two 10p and one 5p one 20p
one 10p and three 5p one 20p and five 5p
four 10p and one 5p
three 10p and three 5p
two 10p and five 5p
one 10p and seven 5p
nine 5p

There are 13 different ways to pay 50p using only silver coins.

First add 5p to each of the ways for 45p

The other four possibilities are:

two 20p and one 10p one 20p and two 10p five 10p one 50p