

Rows of coins



1. Take five coins: 1p, 2p, 5p, 10p, 20p.
Put them in a row using these clues.
The total of the first three coins is 27p.
The total of the last three coins is 31p.
The last coin is double the value of the first coin.
2. Take six coins: two 1p, two 2p and two 5p.
Put them in a row using these clues.
Between the two 1p coins there is one coin.
Between the two 2p coins there are two coins.
Between the two 5p coins there are three coins.

What if you take two 10p coins as well, and
between them are four coins?

Spaceship



Some Tripods and Bipods flew from planet Zeno.
There were at least two of each of them.

Tripods have 3 legs.

Bipods have 2 legs.

There were 23 legs altogether.

How many Tripods were there?

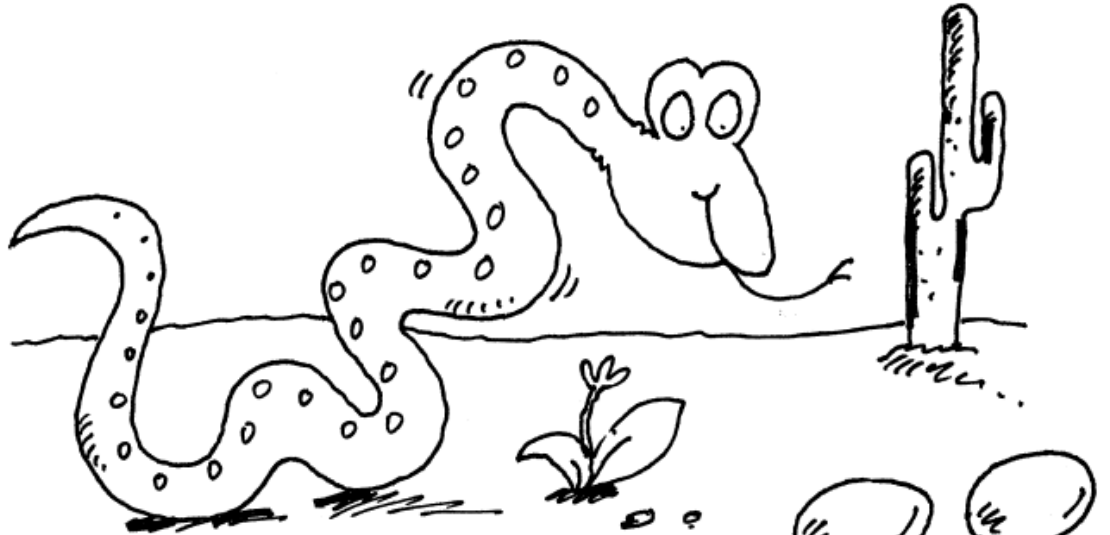
How many Bipods?

Find two different answers.



Susie the snake

Susie the snake has up to 20 eggs.



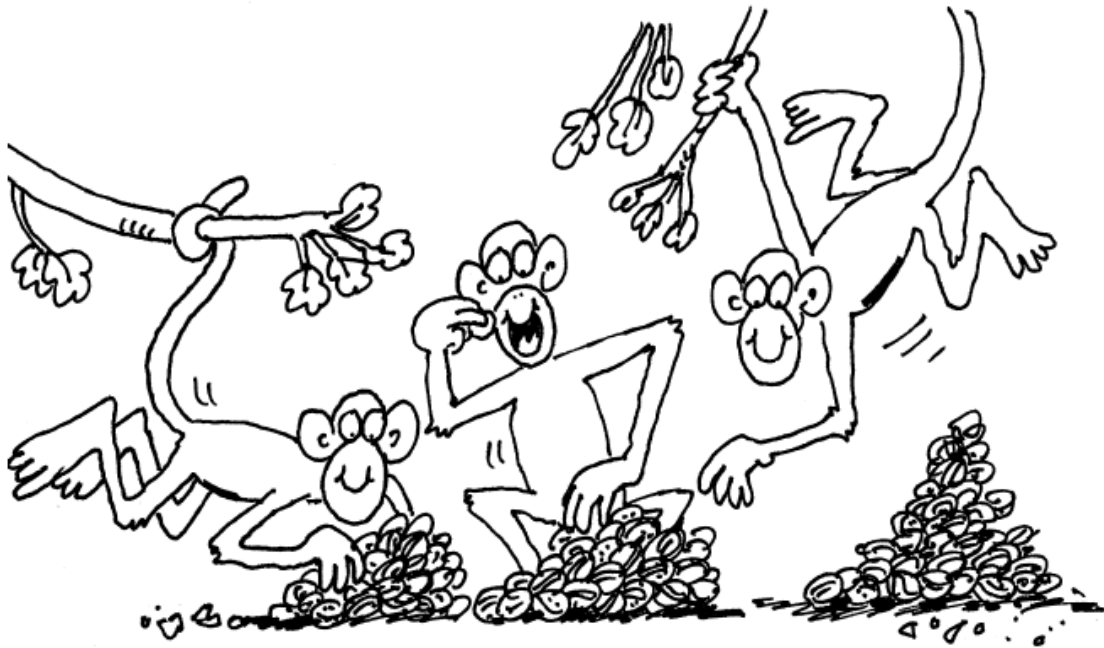
She counted her eggs in fours.
She had 3 left over.

She counted them in fives.
She had 4 left over.

How many eggs has Susie got?



Three monkeys



Three monkeys ate a total of 25 nuts.

Each of them ate a different odd number of nuts.

How many nuts did each of the monkeys eat?

Find as many different ways to do it as you can.

Treasure hunt



Jed and Jake are pirates.

Between them they have three precious jewels:
a ruby (R), a diamond (D) and an emerald (E).



Complete the table.

Show what jewels each pirate could have.

Jed	(R)						
Jake	(E) (D)						

Kieron's cats

Kieron has three cats.
Each is a different weight.

The first and second weigh 7 kg altogether.
The second and third weigh 8 kg altogether.
The first and third weigh 11 kg altogether.

What is the weight of each cat?

