

Dan the detective

1. Dan the detective looked for a number.
He found a two-digit number less than 50.
The sum of its digits was 12.
Their difference was 4.
What number did Dan find?



2. Dan found a two-digit odd number.
One of its digits was half the other.
The number was greater than 50.
What number did Dan find?

Teaching objectives

Solve a given problem by organising and interpreting data in a simple table.
Write whole numbers in figures; know what each digit represents.

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?

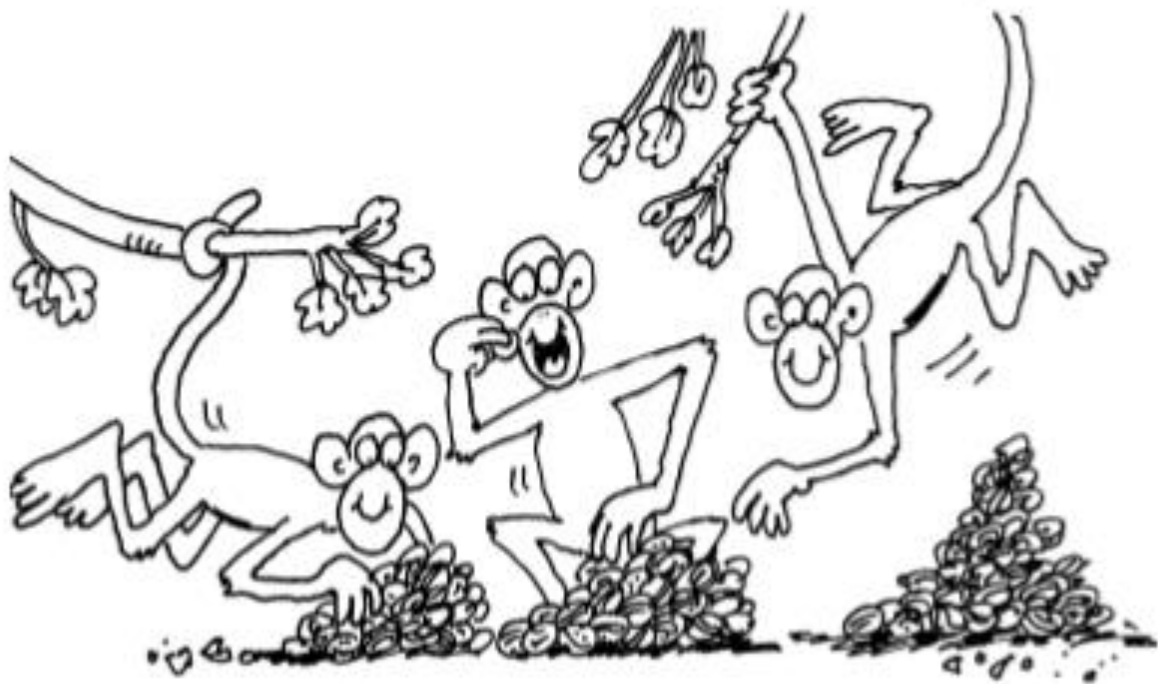
Find two different answers.



Teaching objectives

Solve mathematical problems or puzzles.
Count on in steps of 2 or 3.
Know multiplication facts for 2 and 3 times tables.

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.

Teaching objectives

Solve mathematical problems or puzzles.
Recognise odd and even numbers.
Add three or four small numbers mentally.

Card tricks

Chico's cards are all different.

There is a number from 1 to 8 on each card.



Chico has chosen four cards that add up to 20.
What are they?

There are seven different possibilities.
Try to find them all.

What if Chico has three cards that add up to 16?

32

Teaching objectives

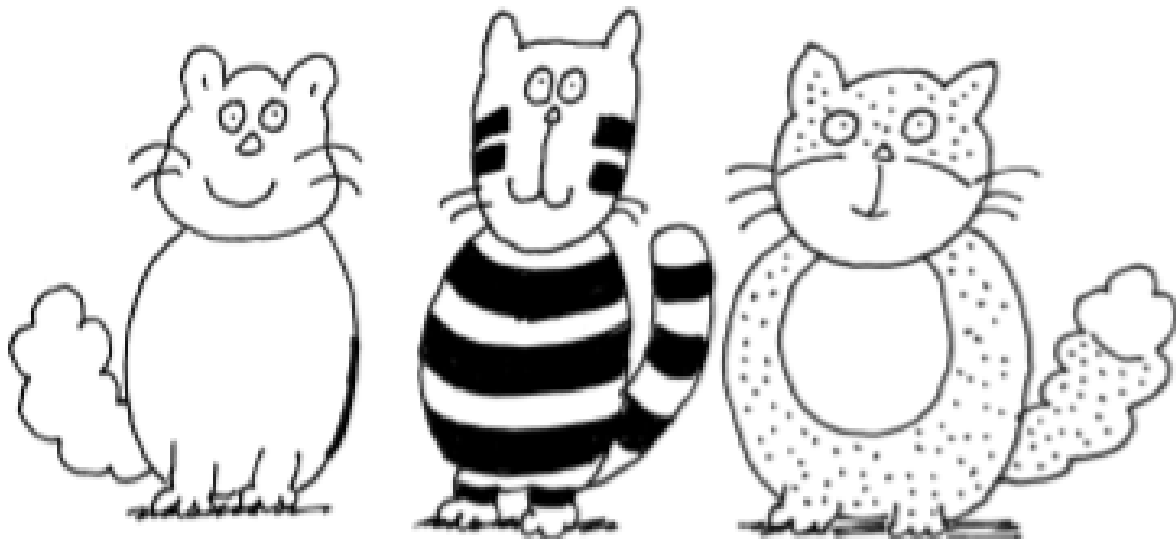
Solve mathematical problems or puzzles.
Know addition and subtraction facts up to 20.
Add three or four small numbers mentally.

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?



Teaching objectives

Solve mathematical problems or puzzles.
Know addition and subtraction facts to 20.
Explain methods and reasoning.