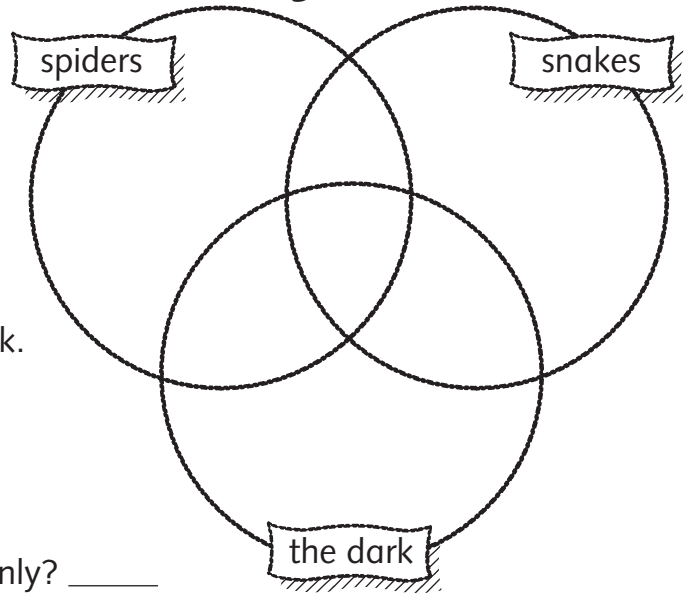


Maths - Venn diagrams

1 Read. Then write the numbers in the Venn diagrams.

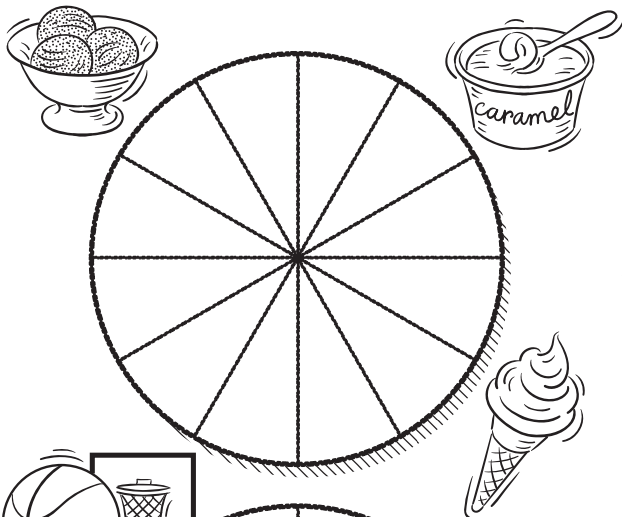
There are 28 children in the class.
 16 are scared of spiders, 15 are scared of snakes and 13 are scared of the dark.
 4 children are scared of spiders, snakes and the dark. 7 children are scared of the dark but they are not scared of snakes or spiders. 6 children are scared of spiders and snakes but they are not scared of the dark. 2 children are scared of snakes and the dark but they are not scared of spiders.



Answer the questions.

- 1 How many children are scared of spiders only? _____
- 2 How many children are scared of snakes only? _____

2 Read the problems and colour the pie charts.



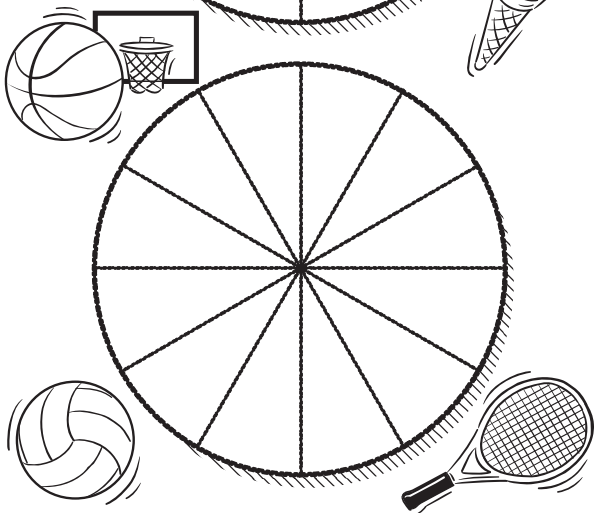
Class favourites

There are 24 children in the class.

Half ($\frac{1}{2}$) of the class like strawberry ice cream.

A third ($\frac{1}{3}$) of the class like chocolate ice cream.

How many children like caramel ice cream? _____



Class favourites

There are 36 children in the class.

Half ($\frac{1}{2}$) of the class like football.

A quarter ($\frac{1}{4}$) of the class like basketball.

How many children like tennis? _____

Subject: Maths

Venn diagrams

Objective: Venn diagrams.

Vocabulary: *scared of, spiders, snakes, the dark, ice cream, strawberry, chocolate, caramel, football, basketball, tennis*

Introduction

Venn diagrams are used to represent sets where a set is a group of elements (people or objects) with a given factor in common. Each circle in a Venn diagram represents a set. The overlapping of the circles shows the relationship between the sets.

Warm up

- Go around the class asking: *What are you scared of?*
- Make a note of the answers on the board.
- Choose one of the most common fears and ask: *Who is scared of (horror films)?* Make a note of the answer.
- Repeat with another common fear. Then ask about the two fears: *Who is scared of (horror films and snakes)?*
- Represent the information on the board in the form of two overlapping circles.

Activity 1

- Ask pupils to read the text out loud.
- Pupils complete the Venn diagram with the missing figures.

Answer key 1-6; 2-3

Activity 2

- Draw a circle on the board. Ask a student to colour in half of the circle.
- Draw two more circles and repeat with a third and a quarter.
- Pupils read the information and colour in the pie charts.
- Read the first line of the first block of text out loud. Ask: *How many children like strawberry ice cream?* Repeat with the second line of text.
- Ask the final question in the block of text.
- Continue with the second block of text.
- Pupils write the answers.

Answer key 1-four; 2-nine

Project ideas

- Suggest sets that can be compared: colour of school bags, after-school activities, favourite food, etc. Divide the class into groups and assign comparable sets to each group. Pupils interview their classmates and record the answers in a Venn diagram.
- Pupils draw pie charts to represent what they do in their free time.