Pie Charts

Pie Chart a.

The pie chart shows the favourite drink of 100 children.
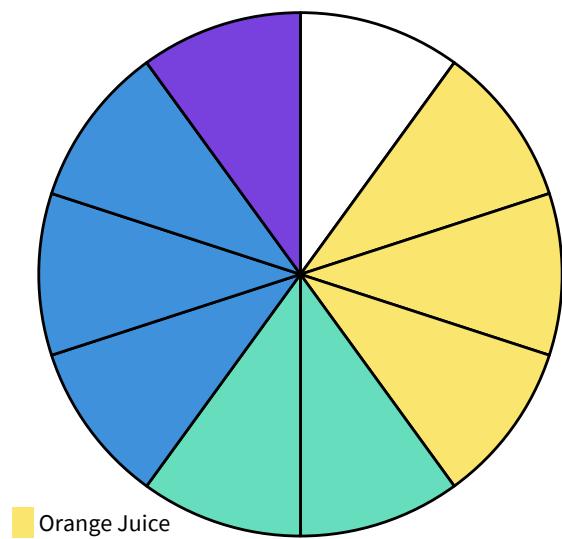
- Orange Juice
- Lemonade
- Water
- Blackcurrant
- Other

Pie Chart b.

The pie chart shows the favourite animal of 360 children.
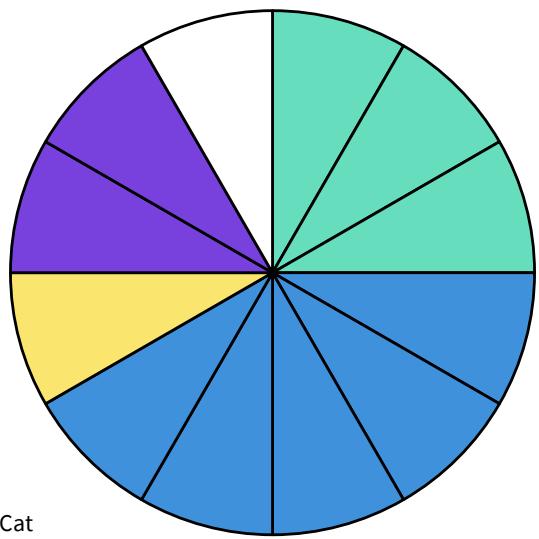
- Cat
- Dog
- Horse
- Rabbit
- Bird

Pie Chart c.

The pie chart shows the favourite subject of 60 children.
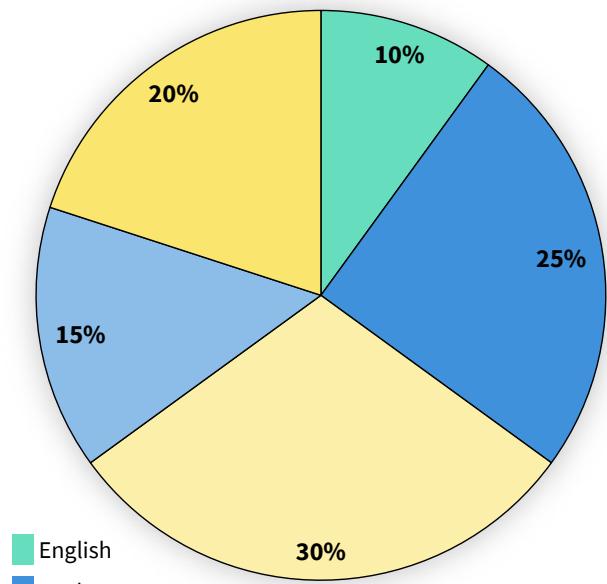
- English
- Maths
- PE
- Art
- History
- Other
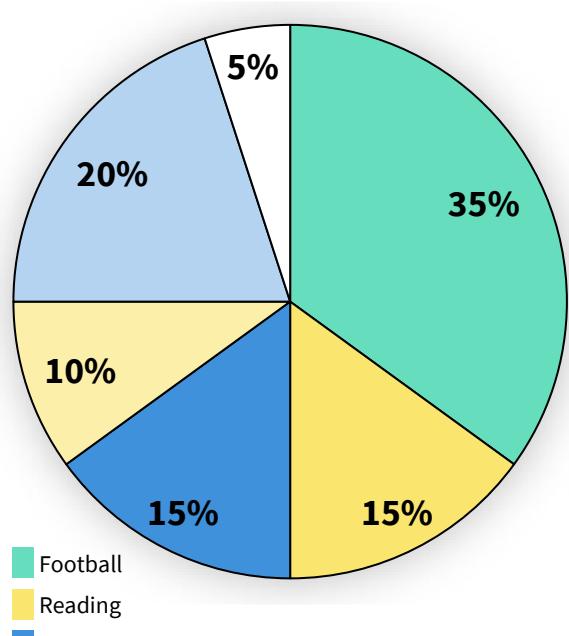
Pie Chart d.

- Football
- Reading
- Drawing
- Swimming
- Cycling
- Other

Arithmetic

1. 3,717 ÷ 63

2. 89% of 6,000

3. 728,963 – 45,217

4. 4.2 x 9.1

Practice: Pie Charts

5. Recap: Explain how to calculate the total of each section on pie chart a.

6. Look at pie chart a. How many children chose:

a. water   b. lemonade   c. other

7. Look at pie chart a. What faction of children chose:
a. blackcurrant   b. orange juice and lemonade
c. blackcurrant and other

8. Look at pie char b. How many children chose:

a. dog   b. cat   c. rabbit

9. Look at pie char b. Which two types of animals:
a. had a combined total of 60 votes
b. had a difference of 90

10. When a pie chart shows percentages, how do you use this to calculate the total of each section?

11. Look at pie char c. How many children voted for:

a. PE   b. Art   c. History

12. Look at pie chart c. How many more people voted for:
a. PE than maths   b. History than art
c. English than other

13. Ali says that on pie chart c, 35 people voted for maths and english combined. Is this correct? Explain.

Challenge

14. Pie chart d shows votes for favourite hobbies. 20 people voted for swimming. Use this information to find:

a. The total number of votes the pie chart represents

b. How many people voted for each hobby

You might want to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	3,717 ÷ 63	59
2	89% of 6,000	5,340
3	728,963 – 45,217	683,746
4	4.2 x 9.1	38.22
5	Explain how to calculate the total of each section on pie chart a.	There are 10 sections in the pie chart a. The pie chart represents 100 children. To find the total of each section, divide the total (100) by the number of sections (10). Each section represents 10 children.
6	Look at pie chart a. How many children chose:	a. 30, b. 20, c. 10
7	Look at pie chart a. What faction of children chose:	a. $\frac{1}{10}$, b. $\frac{1}{2}$, c. $\frac{1}{5}$
8	Look at pie char b. How many children chose:	a. 150, b. 90, c. 60
9	Look at pie char b. Which two types of animals:	a. bird and horse, b. dog and rabbit
10	When a pie chart shows percentages, how do you use this to calculate the total of each section?	The pupil needs to know that they must first know the whole that the pie chart represents. They then find the given percentage of the total.
11	Look at pie char c. How many children voted for:	a. 18, b. 9, c. 12
12	Look at pie chart c. How many more people voted for:	a. 3, b. 3, c. 6
13	Is Ali correct? Explain.	This is incorrect. Ali has added the two percentages and assumed that is the total votes. He has not found 35% of the 60 children who voted. In total, 21 children voted for maths and english combined.
14	Pie chart d shows votes for favourite hobbies. 11 people voted for swimming. Use this information to find: a. The total number of votes the pie chart represents b. How many people voted for each hobby	The pie chart represents 200 votes. Football - 70 votes Reading - 30 votes Drawing - 30 votes Swimming - 20 votes Cycling - 40 votes Other - 10 votes