Canonbury Home Learning

Year 6 Maths

Developing/ Expected/ Greater depth activity

Lesson 5

LO: TBAT solve problems interpreting data on a pie chart.

Task:

You are going apply your knowledge to solve several problems including interpreting data from pie charts.

Success Criteria:

1. **Read the graph.**
2. **To find information start with the x axis (horizontal line).**
3. **Then go up the y axis (vertical line).**
4. **To read data on a pictogram, ensure that you identify the value of the picture.**

Recap:

Please watch my model video that I created.

Canonbury Home Learning

Year 6 Maths

Main activity

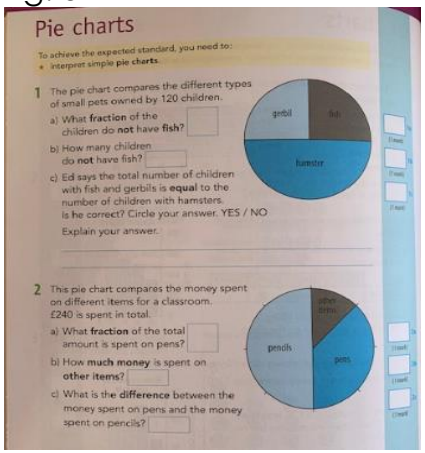
Complete at least 2 columns, more if you can!

Task 1

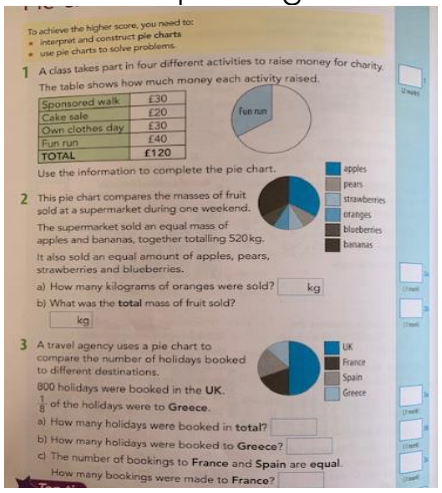
Developing task/ Practice

Maths SATs book task.

Developing/ Expected – Pg. 54



Greater depth – Pg. 56.



Task 2

Arithmetic

8 — 8647 + 4755

9 — 8^2 =

10 — 258 × 5

11 — 8 × 5 × 4 =

12 — 5.014 × 10 =

13 — 3054 − 817 − 44 =

14 — $\frac{3}{5} = \frac{18}{?}$

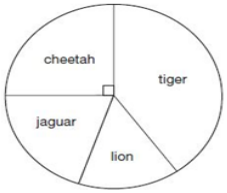
Task 3

Problem Solving

Task 1

This chart shows the number of different types of big cat in a zoo.

There are **20** big cats in the zoo altogether.



Here are some statements about the chart.

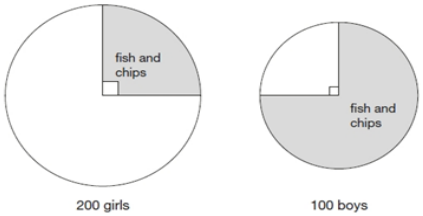
Tick the statements that are **true**.

- There are more cheetahs than jaguars. ☐
- The total number of lions and tigers is 10 ☐
- One-quarter of the big cats are cheetahs. ☐
- There are more than 5 jaguars. ☐

Task 2

200 girls and 100 boys were asked about their favourite meal.

These pie charts show the results.



Look at the pie charts.

For each statement put a tick (✓) if it is true or a cross (✗) if it is false.

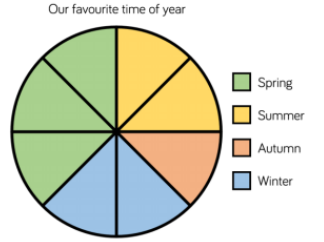
- Three-quarters of the boys chose fish and chips. ☐
- Three times as many boys as girls chose fish and chips. ☐
- Altogether, half of the children chose fish and chips. ☐
- 25 more boys than girls chose fish and chips. ☐

Task 4

Reasoning

Task 1

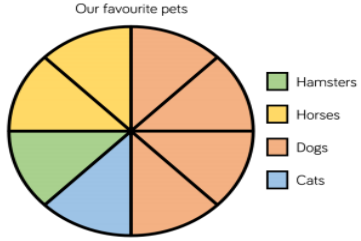
In a survey people were asked what their favourite season of the year was. The results are shown in the pie chart below. If 48 people voted summer, how many people took part in the survey?



Explain your method.

Task 2

96 people took part in this survey.



How many people voted for cats?

$\frac{3}{8}$ of the people who voted for dogs were male. How many females voted for dogs?

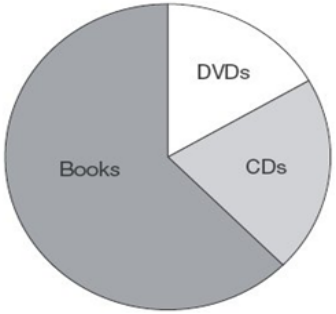
What other information can you gather from the pie chart?

Write some questions about the pie chart for your partner to solve.

Task 3

A shop sells books, CDs and DVDs.

This pie chart shows the sales of each in one week.



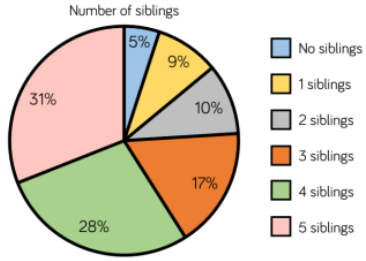
Estimate the **fraction** of the total sales that were DVDs.

In this week, 200 **CDs** were sold.

Estimate how many books were sold.

Task 3

15 people in this survey have no siblings.
Use this information to work out how many people took part in the survey altogether.

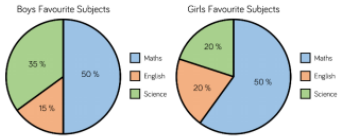


Now work out how many people each segment of the pie chart is worth.

Can you represent the information in a table?

Task 4

120 boys and 100 girls were asked which was their favourite subject. Here are the results:



Jack says:

More girls prefer Maths than boys because 60 % is bigger than 50 %.

Do you agree? Explain why.