

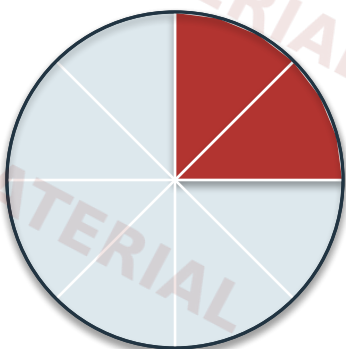
LEARNING DOSSIER

Primary 4 Mathematics

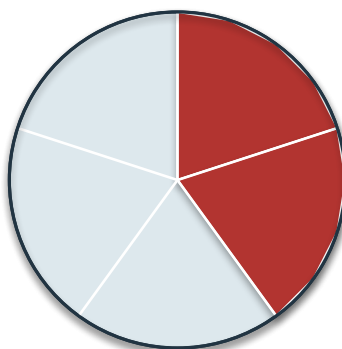
Term 3 Week 9 • Data Handling

Pie Charts and Data Interpretation

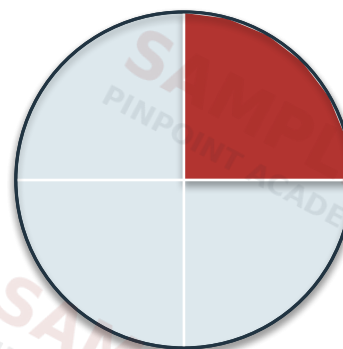
Read the whole, sector, label and question before calculating.



2 out of 8 parts



$\frac{2}{5}$ of a whole



$\frac{1}{4}$ represents a part

Today's learning promise

- 01** I can read pie chart labels and identify what the whole represents.
- 02** I can connect sectors to fractions of a whole.
- 03** I can solve total, part, difference and comparison questions.

Pinpoint Progress Path Practice → Performance Visibility → Pinpoint → Precision Sessions → Progress

Name: _____

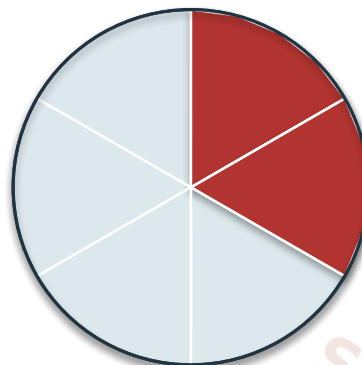
Date: _____

Concept Snapshot

A pie chart shows how one whole is split into parts.

Big idea

The whole circle represents the total. Each sector represents a part of the total.



$\frac{2}{6}$ of the whole

What to notice

- 01 Read the title: what is this chart about?
- 02 Find the whole: how many people/items in total?
- 03 Read the labels: what does each sector represent?
- 04 Use the question type: fraction, part, total, difference or comparison.

Pinpoint Check

Read labels before calculating. The same sector can mean different numbers if the total changes.

Pie Chart Reading Routine

Use this routine before every calculation.

01

Read title and labels

Find what the chart is about and what each sector means.

02

Identify the whole

The whole circle is the total number of pupils/items/votes.

03

Choose the question type

Fraction of whole, part from total, total from part, difference or comparison.

04

Write the first step

Use the fraction or values given before calculating.

05

Answer in context

Write pupils, votes, items or the correct group name.

Pinpoint Check

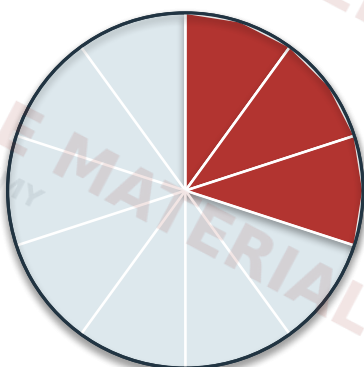
A good answer starts with reading, not calculating.

Worked Example - Sector Fraction

Show the thinking route clearly.

WE-Q01

A pie chart is divided into 10 equal parts. 3 parts represent pupils who chose basketball. What fraction chose basketball?



3 of 10 parts

Solution route

The whole pie has 10 equal parts and basketball uses 3 parts, so the fraction is $\frac{3}{10}$.

Answer
 $\frac{3}{10}$

Common mistake

Using the remaining sectors instead of the chosen sector.

Pinpoint Check

A worked example should show the route, not only the answer.

Practice Set A

Sector fractions and simple pie chart reading.

IP-Q01

A pie chart is divided into 6 equal parts. 1 parts represent pupils who chose basketball. What fraction chose basketball?

Working:

Answer: _____

IP-Q02

A pie chart is divided into 8 equal parts. 3 parts represent pupils who chose basketball. What fraction chose basketball?

Working:

Answer: _____

IP-Q03

In a pie chart, $\frac{1}{5}$ of the pupils chose football. This represents 9 pupils. How many pupils were there altogether?

Working:

Answer: _____

Pinpoint Check

Show the first step before asking for help.

Learning Evidence + Next Step

What today's work tells us.

Evidence captured

- Diagnostic score
- In-class accuracy
- Exit Check score
- Homework completion
- Weak-topic note if needed

Possible next step

If a student still misreads labels, confuses the whole with a sector, or cannot find totals from a fraction, recommend targeted support on pie chart interpretation.

Teacher observation

Strength: _____

Concern: _____

Next step: _____

Parent-safe summary

Today's lesson checked whether your child can read pie charts accurately, connect sectors to fractions of a whole, and solve total/part/difference questions.

Pinpoint Check

Precision Sessions should target one weak subtopic, not the whole week.