

Mapping the Hollow: Measurement, Shape & Data

A2 project summative · 50%

Summative investigation covering Fractions/Decimals, Measurement & Time, Shape & Angles, and Data & Chance. Set as a "Mapping the Hollow" project where students measure, share, sort and graph. Combines hands-on measuring with recorded answers (~60 minutes across two sessions); worth 50% of the unit.

Task



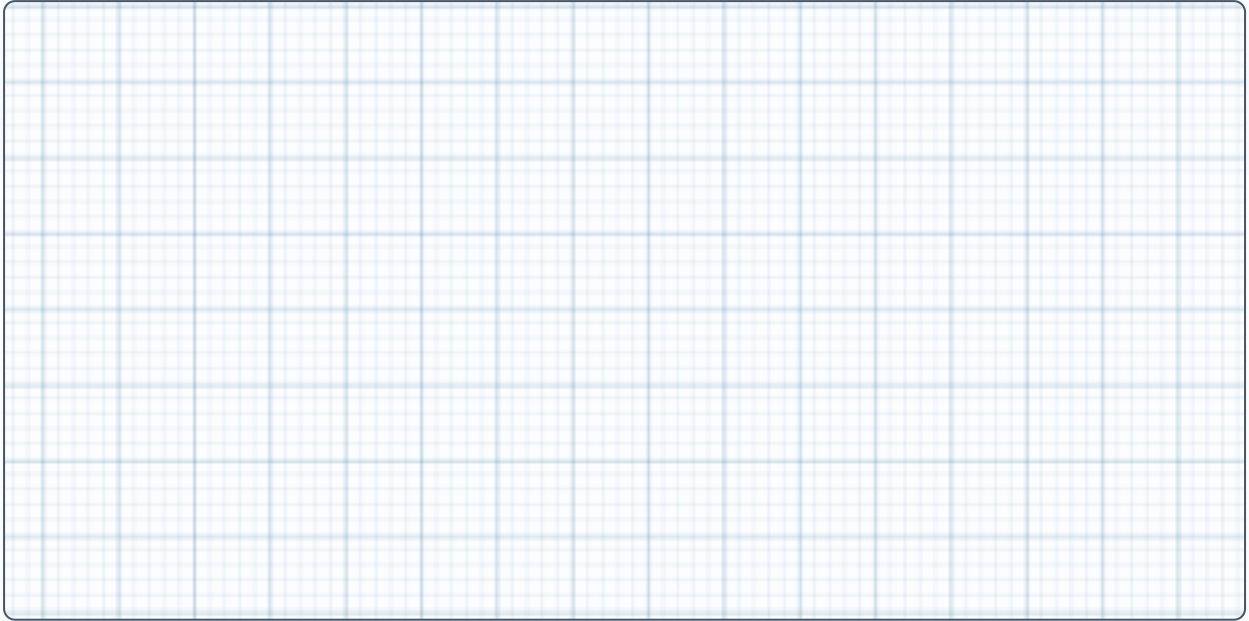
"Hoo — now here's a good project," says Ollie. Bo and Ollie are mapping Burraga Hollow: measuring it, sharing it fairly, looking closely at its shapes, and counting what lives there. Work carefully and explain your thinking.

Part A — Fair shares (fractions & decimals)

1. Mae cuts a damper loaf into **quarters**. Colour **three-quarters** and write it as a fraction:

2. Write a fraction equal to $\frac{1}{2}$: _____ Write $\frac{3}{10}$ as a decimal: _____

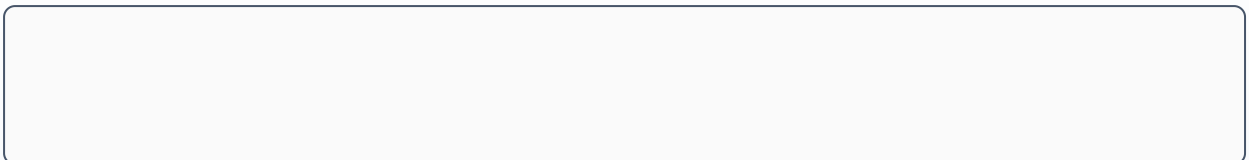
3. Mark $1\frac{1}{2}$ on this number line (sketch the line 0 to 3 and the point).

A large rectangular area filled with a light blue grid. The grid consists of 20 columns and 10 rows of small squares, with slightly thicker lines forming a 5x2 grid of larger squares. This grid is intended for a student to draw a number line from 0 to 3 and mark the point $1\frac{1}{2}$.

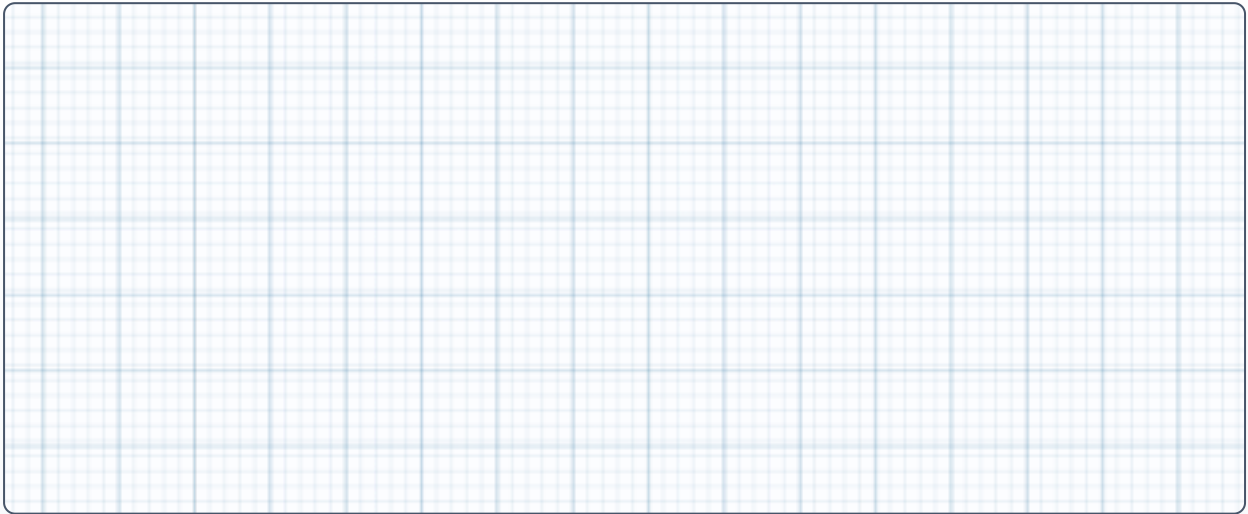
Part B — Measuring the bush (measurement & time)

4. Bo measures a log with a scaled ruler. It is **1 metre and 35 centimetres** long. How many centimetres is that altogether? _____

5. The friends leave the log at **9:15 am** and reach the creek at **10:05 am**. How long did the walk take?

A large, empty rectangular box with a thin black border, intended for the student to write their answer to question 5.

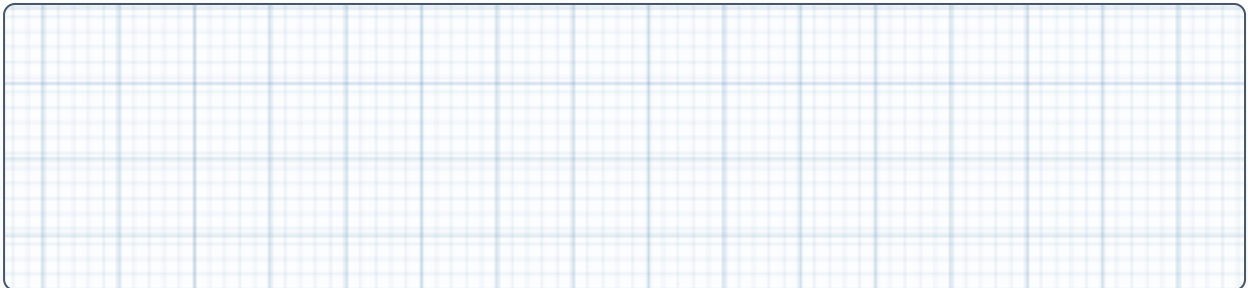
6. Use Ollie's Looking Glass squares to estimate the **area** of this leaf in informal square units.



Part C — Looking closely (shape & angles)

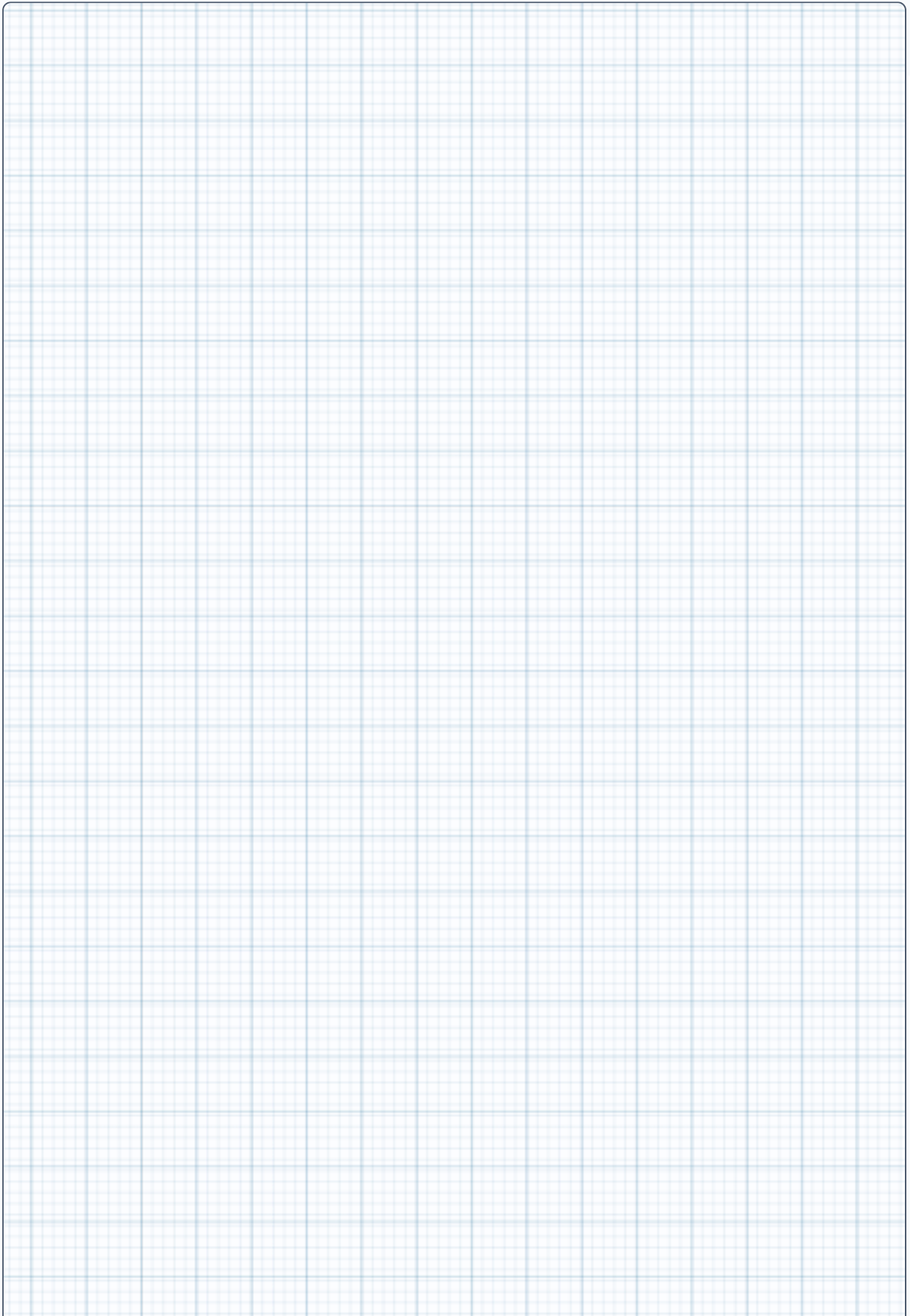
7. Bo splits a square along its diagonal. What two shapes does he make? _____

8. Tick the angle that is **smaller than a right angle**, and sketch your own angle bigger than a right angle.



Part D — Counting the Hollow (data & chance)

9. The friends counted creatures by the creek. Draw a **column graph** of the data, where each square = 2 creatures: frogs 8, lizards 6, birds 10.





10. Biscuit's basket has 9 brown gumnuts and 1 green one. Without looking, is it **likely** or **unlikely** to pull out the green one? Explain why.

"Let's think it through — and you did. Careful looking and clear explaining: that's real Hollow wisdom." — Ollie

Rubric criteria (weights as a percentage of this assessment)

Criterion	Weight	Descriptor
Measurement & time	30%	Measures and compares using scaled instruments and informal area units, converts time and finds duration (Part B).
Data & chance	25%	Represents data in a column graph and reasons about the likelihood of chance events (Part D).
Fractions & decimals	25%	Represents equivalent fractions, places fractions on a number line, and connects fractions to decimals (Part A).
Shape & angles	20%	Combines/splits shapes and compares angles to a right angle (Part C).