

## FOUNDATION TIER

### Module 15 Pie Charts

24 people were asked for their favourite football team. The results are in the table.

football team	frequency
Liverpool	3
Birmingham City	7
Manchester Utd	4
Arsenal	2
Newcastle	8
	<b>24</b>

$$\begin{aligned} \text{degrees per person} &= \frac{360^\circ}{\text{no. of people}} \\ &= \frac{360^\circ}{24} = \mathbf{15^\circ} \end{aligned}$$

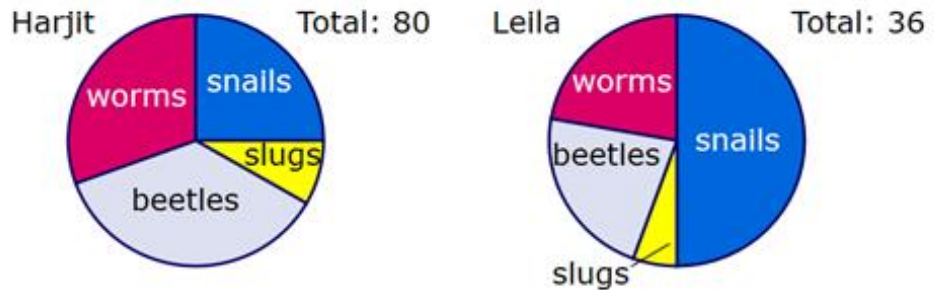


Now measure the angles, draw and label correctly

football team	frequency	degrees
Liverpool	3	$3 \times 15 = \mathbf{45^\circ}$
Birmingham City	7	$7 \times 15 = \mathbf{105^\circ}$
Manchester Utd	4	$4 \times 15 = \mathbf{60^\circ}$
Arsenal	2	$2 \times 15 = \mathbf{30^\circ}$
Newcastle	8	$8 \times 15 = \mathbf{120^\circ}$
	<b>24</b>	

Harjit and Leila looked for creepy crawlies in their gardens. Here is what they found.

When comparing, make sure you know how many items are represented in total:



Estimate the number of worms that Harjit found.  25 worms

Who found more snails?  Harjit  Leila **Well done!**

Harjit's snails are  $\frac{1}{4}$  of 80, which is 20.

Leila's are half of 36, which is 18.

Harjit found more snails, even though his sector is smaller.

**Key Vocabulary:** Data, Calculation, Angle, Compare, Measure, Degree

#### Key Websites:

[www.mymaths.co.uk](http://www.mymaths.co.uk) login is torpoint, see teacher for password

[www.mrbartonmaths.com](http://www.mrbartonmaths.com)

[www.corbettmaths.com](http://www.corbettmaths.com)

[www.justmaths.co.uk](http://www.justmaths.co.uk)

[www.missbsresources.com](http://www.missbsresources.com)

[www.onmaths.com](http://www.onmaths.com)

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

[www.nrich.maths.org](http://www.nrich.maths.org)