Representing Data
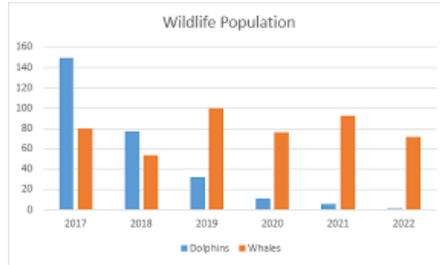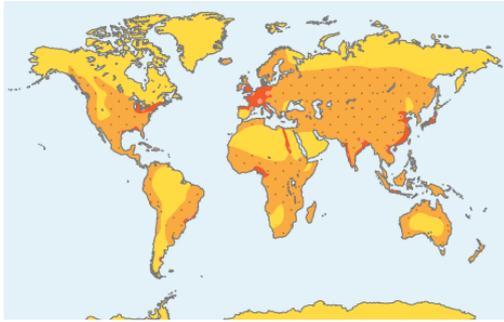
Examples and key information

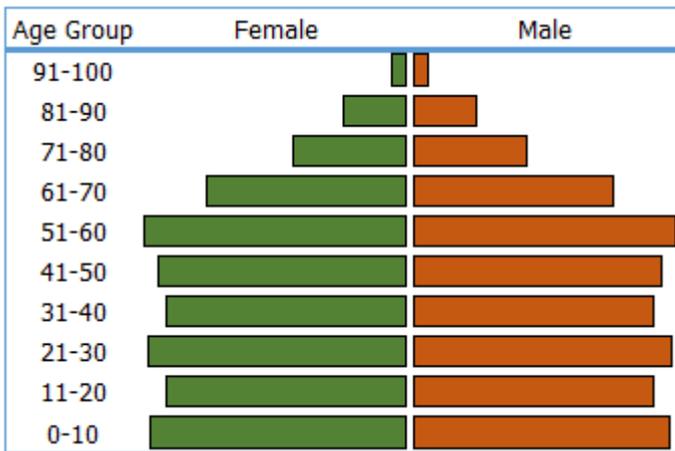Wildlife Population

■ Dolphins ■ Whales

Key words

Frequency (n)

Tally (n)

Pictogram (n)

Histogram (n)

Frequency density (n)

Sparsely populated   Moderately populated

Densely populated

Good Pie

West 21%

North 33%

South 21%

East 25%

Bad Pie

7%   15%   5%

12%   7%

7%   8%

7%   6%   5%

Jan · Feb · Mar · Apr · May · Jun

Jul · Aug · Sep · Oct · Nov · Dec

Age Group	Female	Male
91-100		
81-90		
71-80		
61-70		
51-60		
41-50		
31-40		
21-30		
11-20		
0-10		
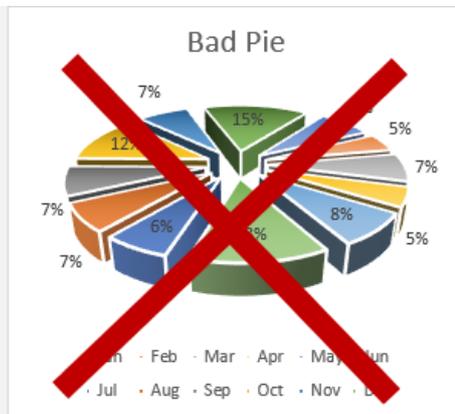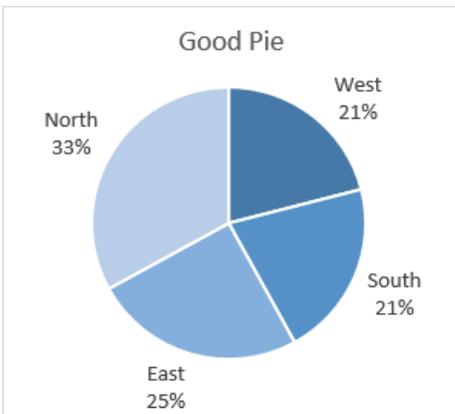
Career links

Professional Athletes – Use data to gain a competitive advantage against another team. They also use data to assist with injury prevention and prediction.

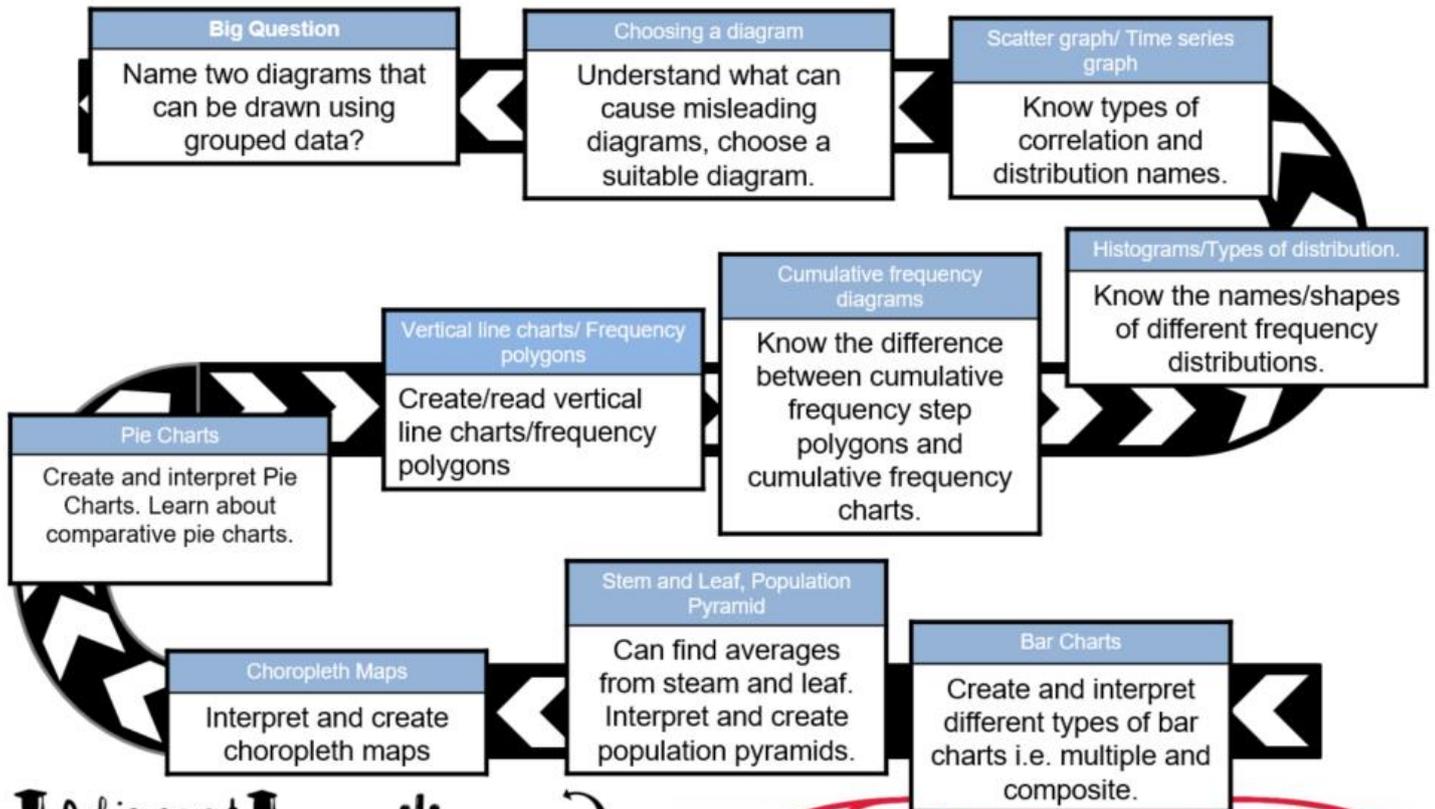| Success Criteria: Representing data |
| --- |
| I can… |
| Interpret and create different types of diagrams. |
| Choose appropriate diagrams and understand what can cause misleading diagrams. |

Think big.
Chase dreams.
Succeed together.

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Mathematics Learning Journey: Representing Data

Big Question
Name two diagrams that can be drawn using grouped data?

Choosing a diagram
Understand what can cause misleading diagrams, choose a suitable diagram.

Scatter graph/ Time series graph
Know types of correlation and distribution names.

Histograms/Types of distribution.
Know the names/shapes of different frequency distributions.

Cumulative frequency diagrams
Know the difference between cumulative frequency step polygons and cumulative frequency charts.

Vertical line charts/ Frequency polygons
Create/read vertical line charts/frequency polygons

Pie Charts
Create and interpret Pie Charts. Learn about comparative pie charts.

Stem and Leaf, Population Pyramid
Can find averages from steam and leaf. Interpret and create population pyramids.

Bar Charts
Create and interpret different types of bar charts i.e. multiple and composite.

Choropleth Maps
Interpret and create choropleth maps

Achievement resilience
Community PERSEVERANCE Pride

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DEFINITION	CHARACTERISTICS
ETYMOLOGY/MORPHOLOGY	
EXAMPLES	NON-EXAMPLES