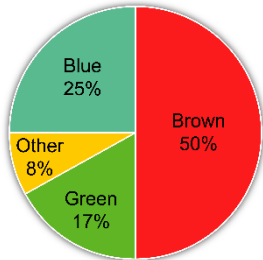Data

Activity 2 Assessment
Exploring Circle Graphs

Exploring Circle Graphs

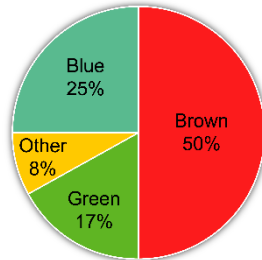| Understands that a circle graph represents data that are parts of one whole	Interprets a circle graph to answer questions	Determines the central angle for a circle graph	Constructs a circle graph using the central angle determined for each category of data

Students' Eye Colours

Blue 25%
Brown 50%
Other 8%
Green 17%

"The sum of the percents is 100. This represents all the students who were surveyed."

Students' Eye Colours

Blue 25%
Brown 50%
Other 8%
Green 17%

120 students were surveyed. The number of students with blue eyes is:
   25% of 120
= 0.25 × 120
= 30
 30 students have blue eyes.

25% of the people surveyed chose chocolate as their favourite ice cream flavour.
To show this on a circle graph, what would the central angle be?

   25% of 360°
= 0.25 × 360°
= 90°

Here are data about favourite ice cream flavours.
Chocolate, C: 25%
Strawberry, S: 40%
Vanilla, V: 20%
Other, O:15%
Central angles:
C: 25% of 360° = 90°
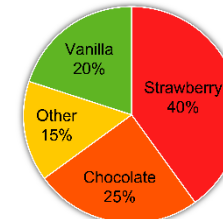S: 40% of 360° = 144°
V: 20% of 360° = 72°
O: 15% of 360° = 54°

Favourite Ice Cream Flavours

Vanilla 20%
Strawberry 40%
Other 15%
Chocolate 25%

Observations/Documentation