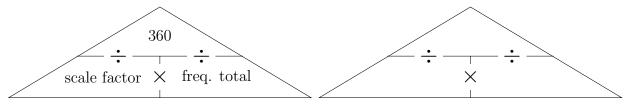
1. Tuki did work experience at a vets.

She did a survey of the pets she saw in the waiting room one day.

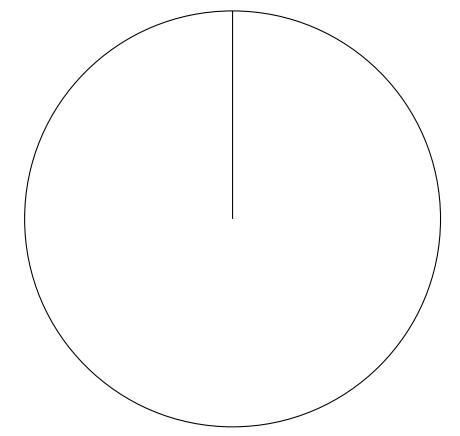
Here are her results.

Pet	Frequency	angle	bearing
Cat	7		¦← 000°
Dog	9		0
Other	4		° ° °
$total \rightarrow$	- - 	× 360°	900

Draw an accurate pie chart to show the information in the table.



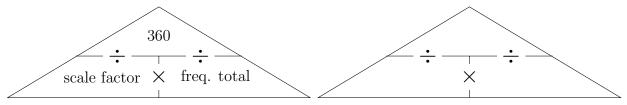
- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.



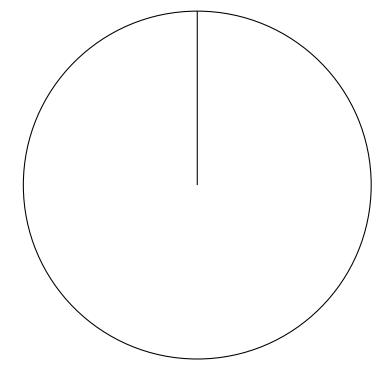
2. 72 people at a climate change demonstration requested government to help with one change. Here are their choices.

Change	frequency	angle	bearing
Diet	11		¦← 000°
Family Size	28		· · · · · · · · · · · · · · · · · · ·
Travel	27		
Work	6		
$total \rightarrow$	 	× 360°	

Draw an accurate pie chart to show the information in the table.



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.

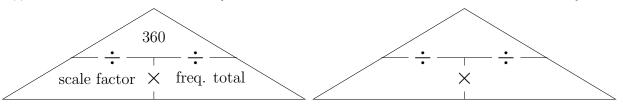


3. A teacher asked 40 students to choose a more healthy snack.

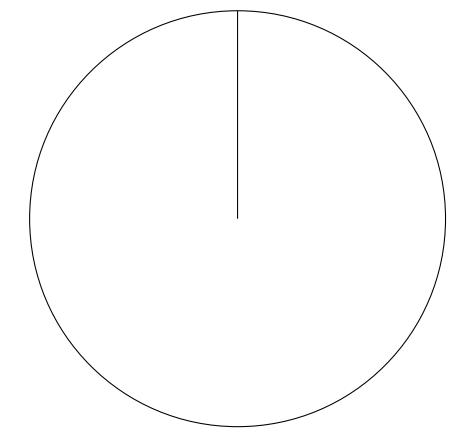
Here are his results.

snack	frequency	angle	bearing
,	10		000°
apple	13	 	!←─
banana	19		······ ! !
toast	8		
$total \rightarrow$		× 360°	¦← 360°

Draw an accurate pie chart to show his results.



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.

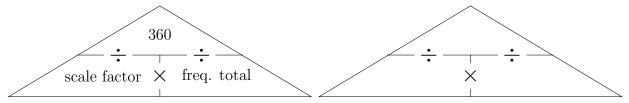


4. A researcher asked some students to name their favourite lesson.

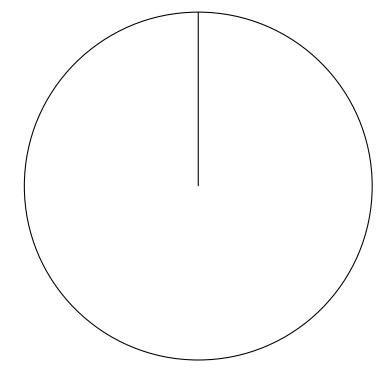
Here are his classifications of their choices.

thing	frequency	angle	bearing
Creative Arts	73		¦← 000°
Sport	15		
STEM	7		
Written word	25		°
$total \rightarrow$	 	× 360°	

Draw an accurate pie chart to show his results.



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.



Answers

1. Pets at a vet

(i) 18 (ii) angles: 126, 162, 72 (iii) bearings: 126, 288

FYI: (i) B1, (ii) B1 (iii) sectors $\pm 2^{\circ}$ and (iv) labels (B1)

2. Climate change

(i) 5 (ii) angles: 55, 140, 135, 30 (iii) bearings: 055, 195, 330

FYI: (i) B1, (ii) B1 (iii) sectors $\pm 2^{\circ}$ and (iv) labels (B1)

3. Snack

(i) 9 (ii) angles: 117, 171, 72 (iii) bearings: 117, 288

FYI: (i) B1, (ii) B1 (iii) sectors $\pm 2^{\circ}$ and (iv) labels (B1)

4. Lesson type

(i) 3 (ii) angles: 219, 45, 21, 75 (iii) bearings: 219, 264, 285

FYI: (i) B1, (ii) B1 (iii) sectors $\pm 2^{\circ}$ and (iv) labels (B1)