

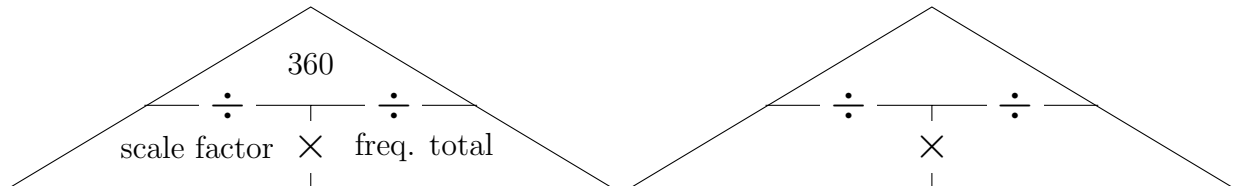
1. All year 8 were asked to vote for an end of year trip.

The table shows information about their choices.

Trip	Number of Students	angle	bearing
Ice skating	19		← 000°
Theme Park	63		←°
Water World	98		←°
total →		× → 360°	← 360°

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

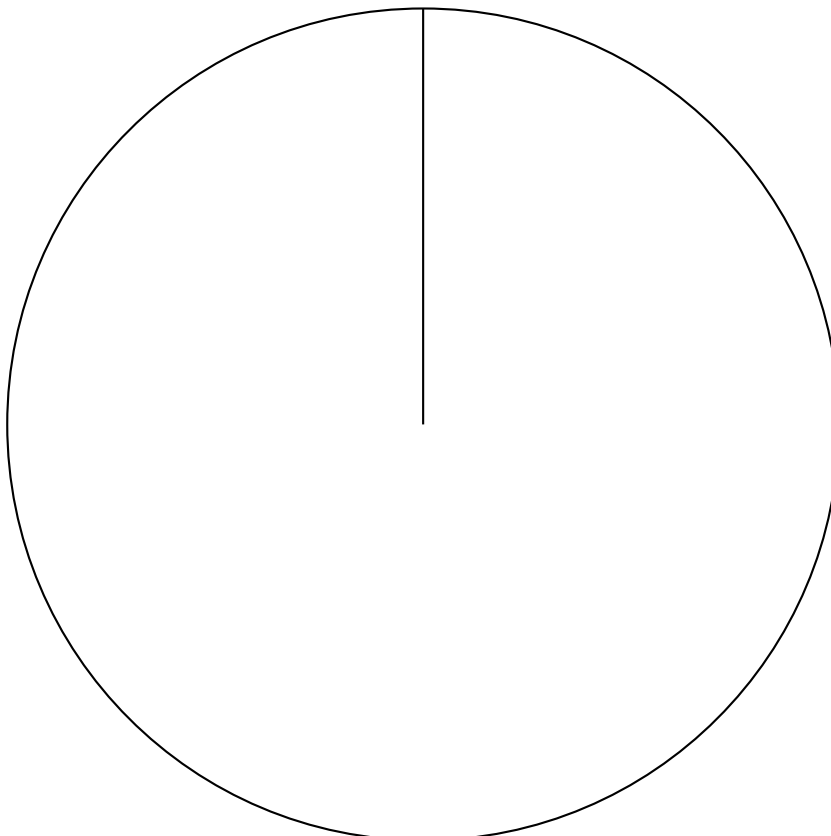
(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



(ii) Calculate the angles.

(iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}

(iv) Label the sectors.



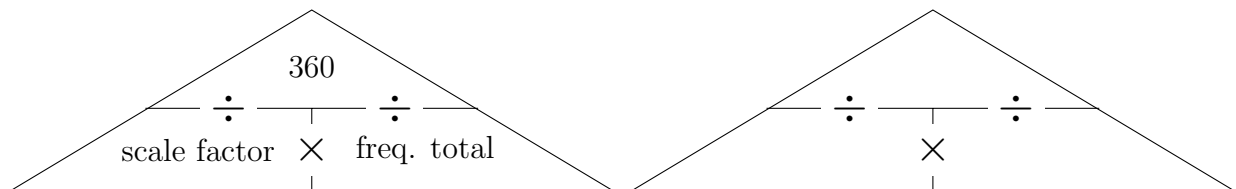
2. Taylor asked 30 people to choose one pudding from her list.

Here are her results.

pudding	frequency	angle	bearing
fruit	8		← 000°
sponge	19		←°
yogurt	3		←°
total →		× → 360°	← 360°

Draw an accurate pie chart to show her results.

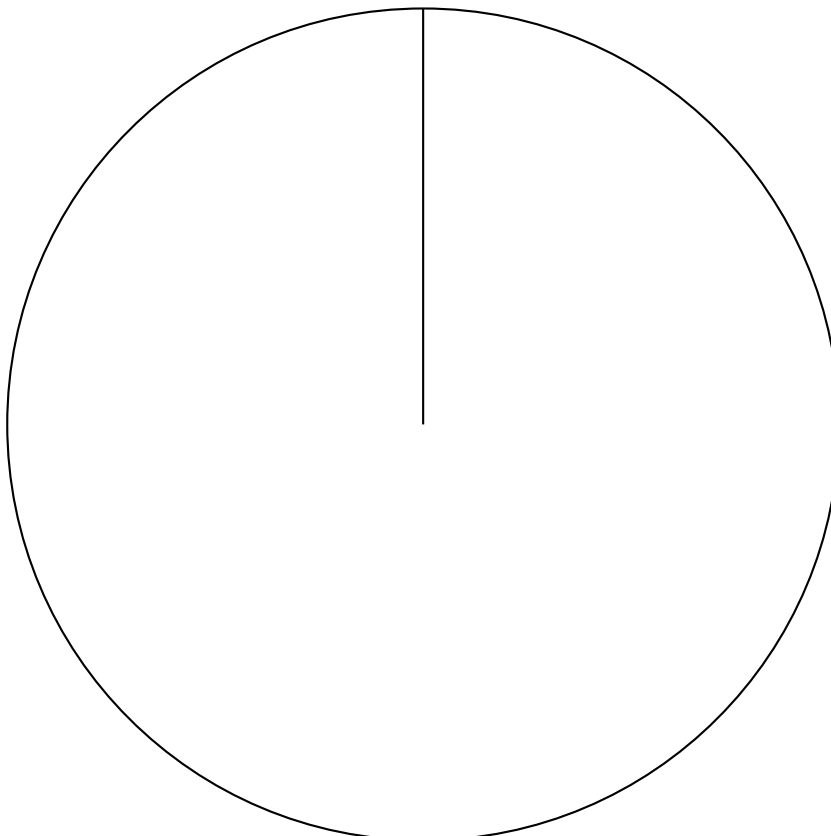
(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



(ii) Calculate the angles.

(iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}

(iv) Label the sectors.

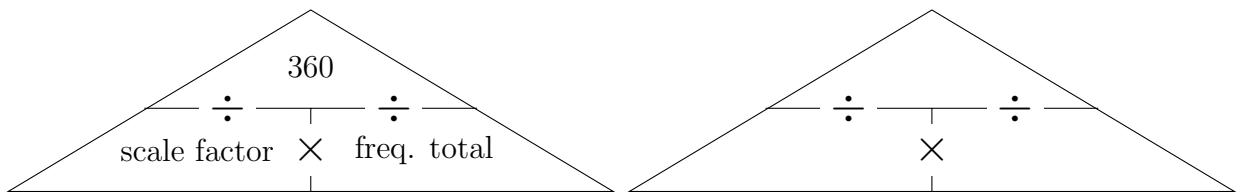


3. 90 interviewers were asked people to name the first team sport they thought of.
Here are the sports they named.

thing	frequency	angle	bearing
Basketball	19		← 000°
Cricket	17		←°
Football	34		←°
Rugby	20		←°
total →		× → 360°	← 360°

Draw an accurate pie chart to show this information.

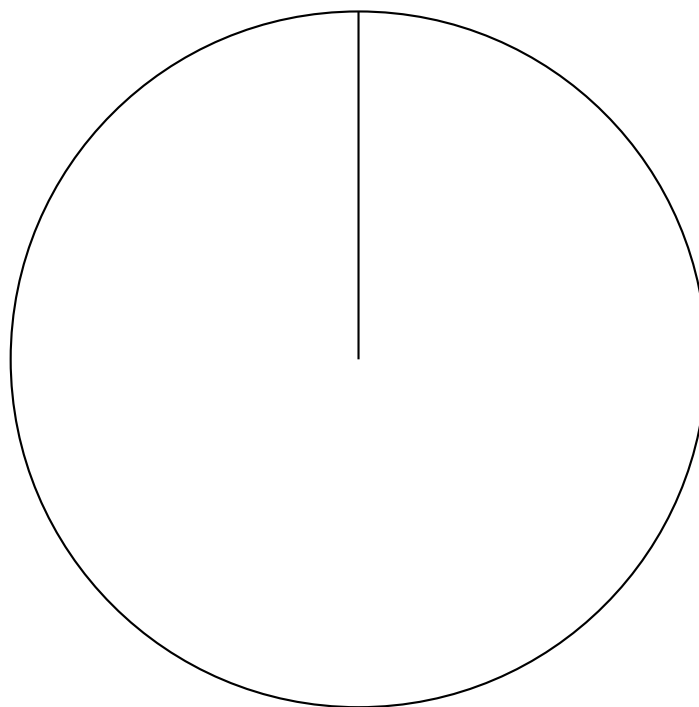
(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



(ii) Calculate the angles.

(iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}

(iv) Label the sectors.



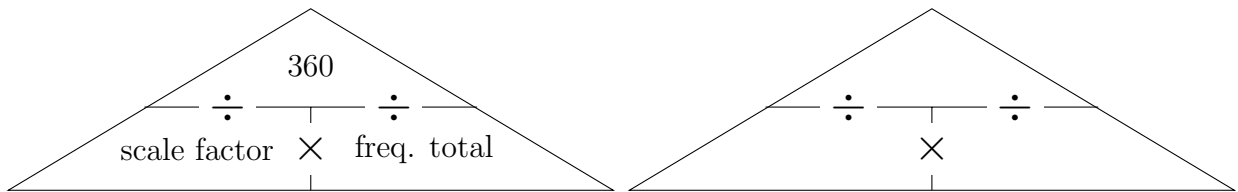
4. 36 people had to choose a meal at a fund raiser.

The table shows information about their choices.

Choice	Frequency	angle	bearing
Curry	13		← 000°
Fish'n'chips	7		←°
Pad Thai	5		←°
Pie'n'mash	11		←°
total →		× → 360°	← 360°

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

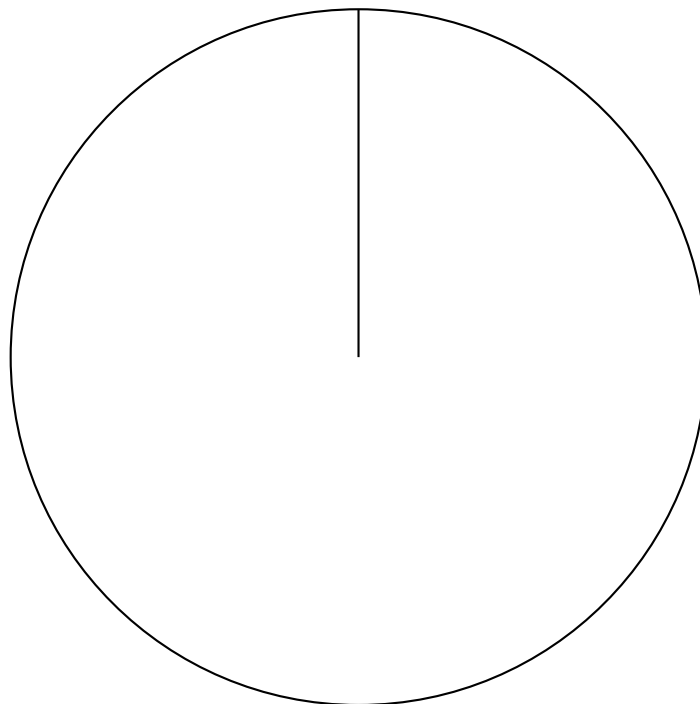
(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



(ii) Calculate the angles.

(iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}

(iv) Label the sectors.



Answers

1. (i) 2 (ii) angles: 38, 126, 196 (iii) bearings: 38, 164
2. (i) 4 (ii) angles: 76, 68, 136, 80 (iii) bearings: 76, 144, 280
3. (i) 12 (ii) angles: 96, 228, 36 (iii) bearings: 96, 324
4. (i) 10 (ii) angles: 130, 70, 50, 110 (iii) bearings: 130, 200, 250